

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P319683

Luminaire Tested: **GAN-SA9B-740-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51092 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

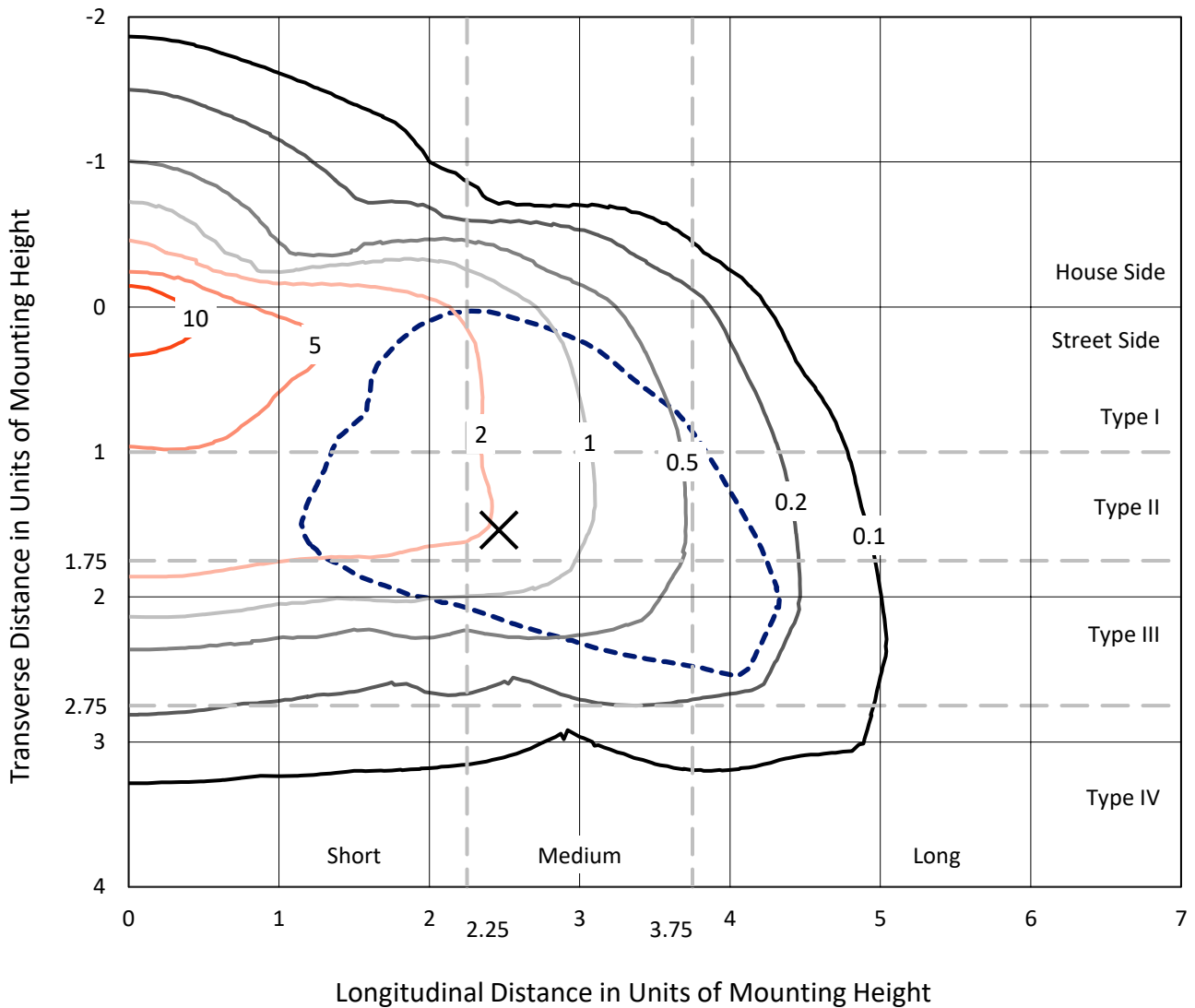
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

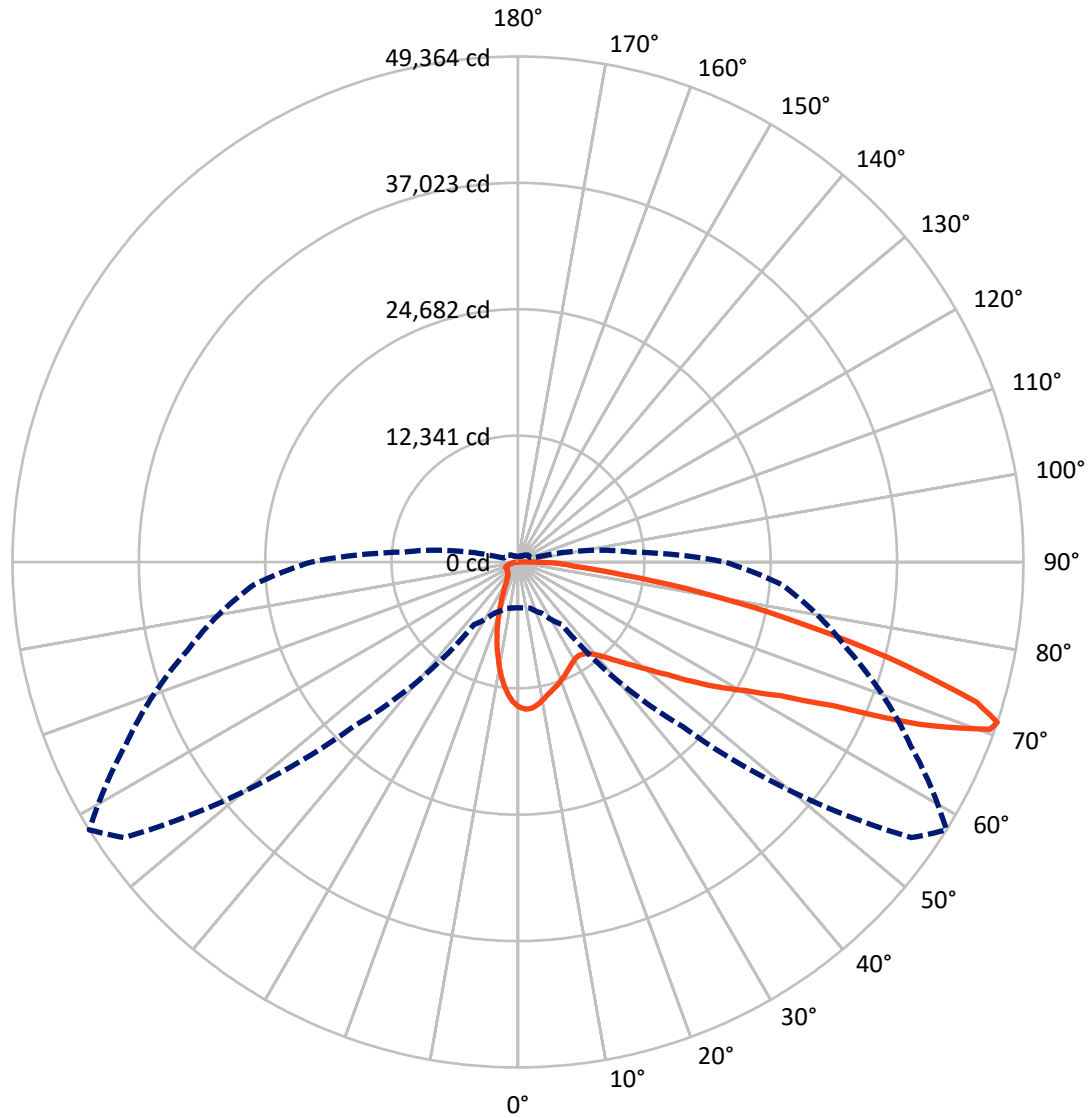
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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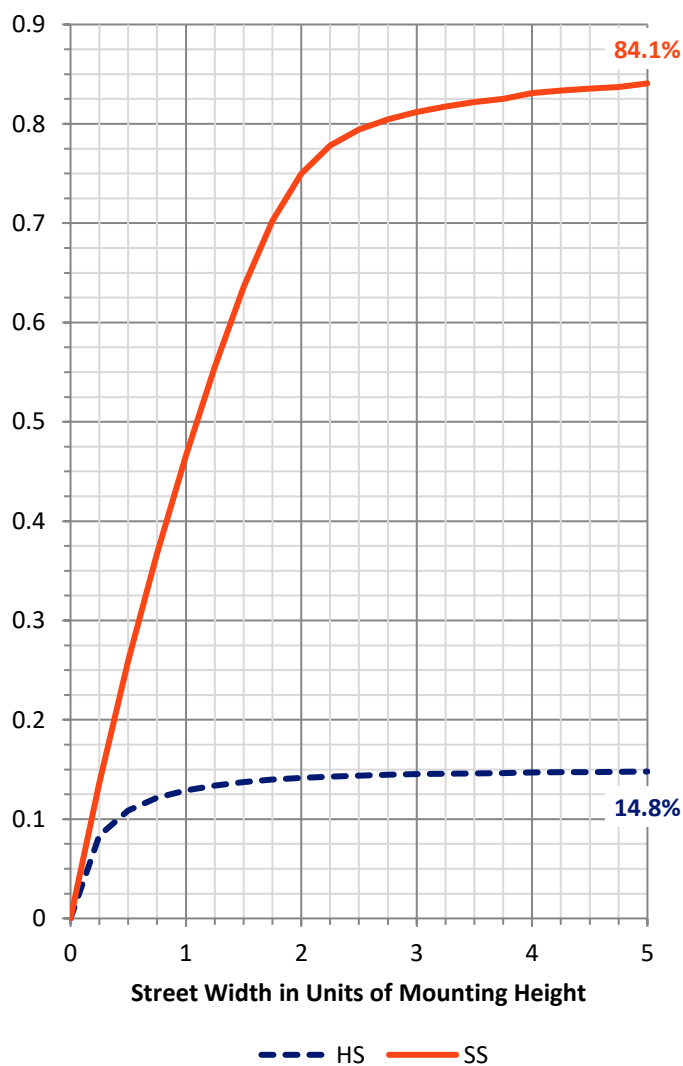
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7638.6	0.0	7638.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	43453.4	0.0	43453.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	51092.0	0.0	51092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1221.2	2.4
10°-20°	2715.5	5.3
20°-30°	3451.2	6.8
30°-40°	4396.1	8.6
40°-50°	6233.9	12.2
50°-60°	9647.2	18.9
60°-70°	13133.5	25.7
70°-80°	8761.5	17.1
80°-90°	1531.8	3.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	51092.0	100.0
0°-180°	51092.0	100.0

Coefficient of Utilization

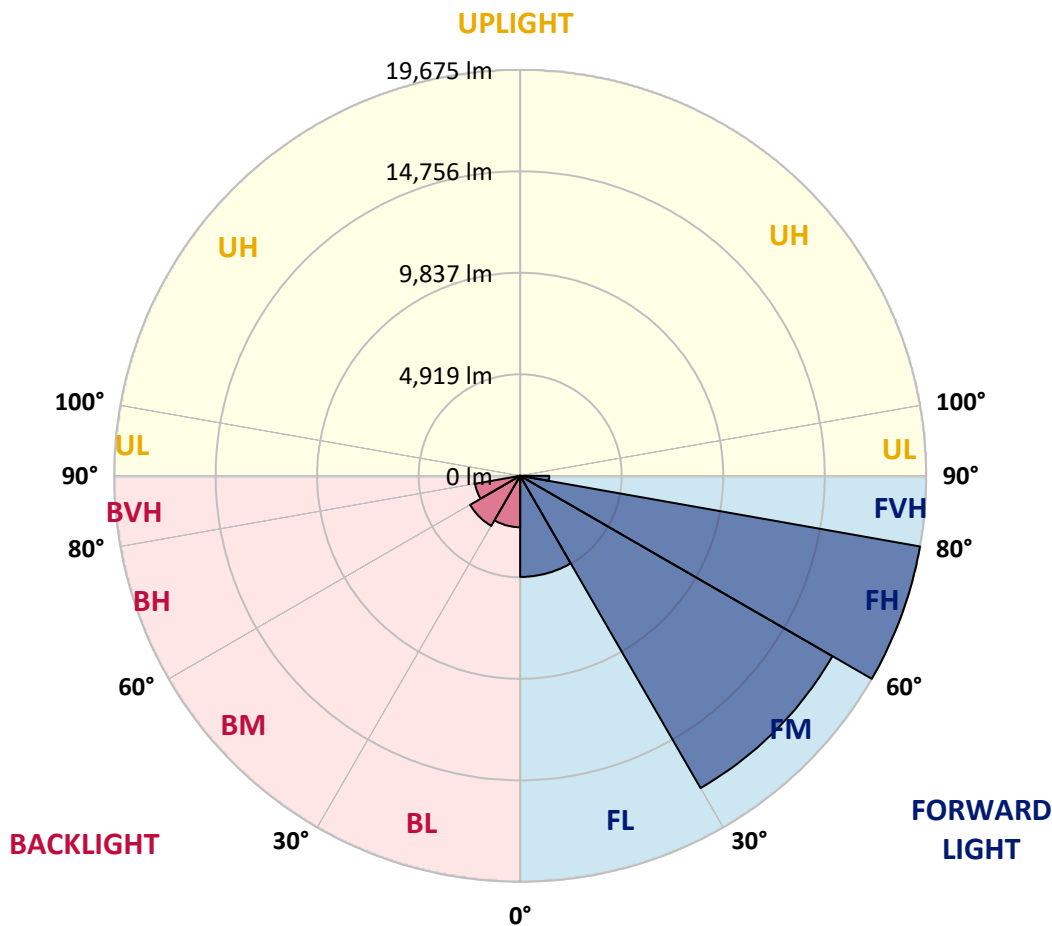


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4898.0	9.6			
FM (30°-60°)	17475.9	34.2			
FH (60°-80°)	19674.9	38.5			G5
FVH (80°-90°)	1404.5	2.7			G5
BL (0°-30°)	2490.0	4.9	B3/2500		
BM (30°-60°)	2801.3	5.5	B3/5000		
BH (60°-80°)	2220.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	127.3	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	14155.9	14155.9	14155.9	14155.9	14155.9	14155.9	14155.9	14155.9	14155.9	14155.9	14155.9
2.5°	14531.4	14511.8	14519.0	14504.7	14470.9	14437.1	14387.3	14396.2	14326.8	14223.5	14095.4
5°	14257.3	14250.2	14303.6	14333.9	14358.8	14339.2	14325.0	14342.8	14241.3	14098.9	13876.5
7.5°	13682.5	13604.2	13671.8	13773.3	13869.4	13942.3	14038.4	14050.9	13986.8	13837.3	13545.5
10°	12865.6	12790.9	12890.5	13048.9	13241.1	13415.5	13609.5	13645.1	13657.6	13522.3	13168.2
12.5°	12018.5	11961.5	12061.2	12283.6	12602.2	12870.9	13180.6	13234.0	13344.3	13253.6	12819.3
15°	11260.3	11238.9	11360.0	11578.9	11945.5	12356.6	12803.3	12901.2	13088.1	13057.8	12547.0
17.5°	10605.4	10600.0	10692.6	10922.1	11327.9	11847.6	12427.8	12593.3	12870.9	12906.5	12322.8
20°	10117.7	10107.0	10171.1	10340.2	10758.4	11347.5	12022.0	12249.8	12650.3	12774.8	12091.4
22.5°	9856.1	9854.3	9856.1	9936.2	10277.9	10826.0	11626.9	11904.6	12434.9	12669.8	11835.1
25°	9811.6	9806.3	9767.1	9758.2	9952.2	10390.0	11235.4	11541.5	12230.2	12596.9	11591.3
27.5°	9927.3	9934.4	9882.8	9799.1	9838.3	10103.5	10895.5	11222.9	12066.5	12582.6	11422.2
30°	10167.5	10164.0	10119.5	10032.3	9955.8	9996.7	10653.4	10980.9	11956.2	12644.9	11306.6
32.5°	10432.7	10452.3	10443.4	10395.3	10281.4	10117.7	10580.4	10900.8	11924.1	12794.4	11256.7
35°	10751.3	10772.7	10836.7	10874.1	10740.6	10477.2	10737.1	11014.7	12016.7	13075.6	11336.8
37.5°	11053.8	11109.0	11288.8	11447.2	11333.3	11039.6	11153.5	11351.1	12303.2	13518.8	11552.2
40°	11402.7	11450.7	11744.4	12080.7	12062.9	11758.6	11824.5	11956.2	12808.7	14154.1	11941.9
42.5°	11746.2	11842.3	12267.6	12744.6	12881.6	12612.9	12717.9	12787.3	13520.5	14995.9	12621.8
45°	12203.5	12306.8	12897.6	13472.5	13792.8	13641.6	13808.9	13835.5	14415.7	16142.1	13609.5
47.5°	12895.9	13013.3	13702.1	14305.4	14794.8	14810.8	15086.7	15076.0	15533.4	17453.7	14853.6
50°	13974.4	14143.4	14707.6	15271.8	15866.2	16197.2	16565.6	16514.0	16873.5	18850.8	16286.2
52.5°	15387.5	15465.8	15884.0	16300.5	17039.0	17781.2	18309.8	18263.5	18393.4	20287.0	17912.9
55°	16852.2	16910.9	17083.5	17311.3	18304.4	19514.6	20632.3	20559.3	20230.1	21778.4	19520.0
57.5°	18169.2	18288.4	18407.7	18502.0	19578.7	21326.4	23008.2	23013.6	22223.4	23387.3	21180.5
60°	18373.8	18478.8	19267.3	20011.2	21758.9	23743.3	25551.5	25498.1	24286.1	25133.2	23031.4
62.5°	16241.7	16478.4	17795.4	19774.5	23858.9	28164.1	28795.9	28730.0	26752.8	27284.9	25186.6
65°	11639.4	11908.1	13497.4	16471.3	22840.9	33035.2	34651.2	33764.9	30116.4	29931.3	27710.3
67.5°	6714.9	6779.0	7467.7	9856.1	17391.4	33289.7	43583.6	42343.1	35339.9	32933.7	28945.4
70°	4965.4	4963.6	5127.4	6065.3	9411.2	27169.2	47831.8	48944.1	40839.3	33921.5	27199.5
71°	4490.2	4495.6	4678.9	5520.7	7453.5	22741.3	46929.5	49364.1	42287.9	33433.8	25935.9
72.5°	3840.6	3858.4	4112.9	4951.2	6270.0	15682.9	43042.5	46844.0	42974.9	32230.7	23958.6
75°	2913.4	2954.3	3306.7	4173.4	5730.7	7953.6	31590.0	37406.2	38176.8	28439.9	17802.5
77.5°	2078.7	2125.0	2523.6	3509.6	5447.7	5994.1	21155.5	27284.9	28094.7	18226.1	8030.1
80°	1313.4	1368.6	1669.4	2792.4	5118.5	5691.5	13294.5	18340.0	15319.8	5832.1	2043.1
82.5°	770.6	813.3	1035.8	1824.2	4180.6	5481.5	7821.9	10165.8	5962.1	1761.9	929.0
85°	446.7	466.3	646.0	1162.2	3036.2	5173.6	5746.7	5682.6	2587.7	861.4	439.6
87.5°	208.2	231.4	382.6	606.9	1685.4	3749.9	4541.8	3924.3	1608.9	404.0	206.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14155.9	14155.9	14155.9	14155.9	14155.9	14155.9	14155.9	14155.9	14155.9	14155.9	14155.9
2.5°	14033.1	14002.8	13876.5	13764.4	13646.9	13493.8	13324.8	13303.4	13200.2	13219.8	13184.2
5°	13755.5	13678.9	13374.6	13098.7	12773.1	12481.2	12164.4	12018.5	11808.4	11794.2	11740.8
7.5°	13358.6	13216.2	12744.6	12221.3	11698.1	11199.8	10706.8	10382.9	10051.9	9911.3	9898.8
10°	12911.9	12669.8	11975.7	11201.6	10447.0	9719.1	9014.3	8492.8	8023.0	7800.5	7791.6
12.5°	12488.3	12130.6	11178.4	10124.8	9092.6	8149.3	7183.0	6497.8	5908.7	5711.1	5627.5
15°	12128.8	11625.1	10402.5	9055.2	7802.3	6492.4	5392.6	4671.8	4127.2	3938.5	3902.9
17.5°	11780.0	11132.2	9606.9	7974.9	6460.4	5020.6	3918.9	3383.2	3093.2	3016.6	3014.8
20°	11432.9	10624.9	8775.8	6869.7	5163.0	3755.2	3013.1	2772.8	2674.9	2666.0	2651.8
22.5°	11039.6	10087.5	7902.0	5761.0	4029.3	2952.6	2561.0	2464.9	2452.5	2484.5	2484.5
25°	10671.2	9553.5	7015.7	4675.3	3134.1	2463.1	2286.9	2267.4	2301.2	2358.1	2363.5
27.5°	10327.7	9039.2	6150.7	3710.7	2511.2	2169.5	2096.5	2119.6	2180.2	2246.0	2247.8
30°	10044.7	8553.3	5310.7	2924.1	2121.4	1950.6	1938.1	1984.4	2050.2	2101.9	2114.3
32.5°	9825.8	8138.7	4499.1	2351.0	1866.9	1786.8	1797.5	1836.7	1877.6	1906.1	1925.7
35°	9724.4	7782.7	3749.9	1982.6	1705.0	1660.5	1674.7	1696.1	1713.9	1735.2	1751.2
37.5°	9742.2	7506.9	3080.7	1753.0	1596.4	1573.3	1573.3	1573.3	1573.3	1584.0	1585.7
40°	9907.7	7348.5	2536.1	1607.1	1523.4	1498.5	1478.9	1461.2	1446.9	1454.0	1450.5
42.5°	10331.3	7334.2	2137.4	1514.5	1464.7	1423.8	1384.6	1359.7	1341.9	1349.0	1352.6
45°	11050.3	7512.2	1868.7	1448.7	1409.5	1347.2	1297.4	1270.7	1258.3	1281.4	1285.0
47.5°	11981.1	7900.2	1705.0	1400.6	1357.9	1276.1	1222.7	1197.8	1201.3	1235.1	1244.0
50°	13180.6	8530.2	1626.7	1370.4	1322.3	1215.5	1160.4	1139.0	1149.7	1197.8	1208.4
52.5°	14497.6	9437.9	1635.6	1361.5	1299.2	1171.1	1112.3	1087.4	1105.2	1149.7	1158.6
55°	16017.5	10528.8	1783.3	1373.9	1265.4	1142.6	1073.2	1030.5	1044.7	1085.6	1092.7
57.5°	17706.4	11778.2	2080.5	1370.4	1222.7	1115.9	1032.2	968.2	978.8	1003.8	1010.9
60°	19464.8	13287.4	2541.4	1381.1	1203.1	1083.8	977.1	897.0	893.4	914.8	918.3
62.5°	21575.6	15033.3	3068.2	1388.2	1215.5	1042.9	904.1	825.8	815.1	820.5	824.0
65°	23750.4	16296.9	2870.7	1359.7	1254.7	1009.1	840.0	756.4	736.8	733.2	735.0
67.5°	23818.0	14942.5	2012.9	1302.8	1270.7	991.3	792.0	697.7	665.6	653.2	651.4
70°	21360.2	12139.5	1567.9	1242.2	1206.7	962.8	747.5	649.6	601.5	582.0	580.2
71°	20160.7	11174.9	1486.1	1212.0	1158.6	934.4	727.9	628.2	578.4	557.1	553.5
72.5°	18279.5	10018.0	1386.4	1163.9	1066.1	861.4	690.5	598.0	546.4	521.5	516.1
75°	13118.3	6551.2	1190.6	1037.6	882.7	687.0	605.1	537.5	493.0	462.7	459.2
77.5°	5054.4	2607.3	900.5	863.2	676.3	537.5	498.3	464.5	432.5	402.2	400.4
80°	1562.6	1165.7	656.7	649.6	489.4	400.4	388.0	379.1	366.6	334.6	327.5
82.5°	834.7	669.2	452.0	420.0	320.3	267.0	281.2	284.8	286.5	252.7	249.2
85°	398.7	354.2	254.5	238.5	186.9	149.5	172.6	186.9	188.7	154.8	144.2
87.5°	190.4	185.1	119.2	90.8	69.4	49.8	60.5	74.7	81.9	58.7	51.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)