

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: P319652

Luminaire Tested: **GAN-SA8C-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319652
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-SA8C-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA 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: 51627 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

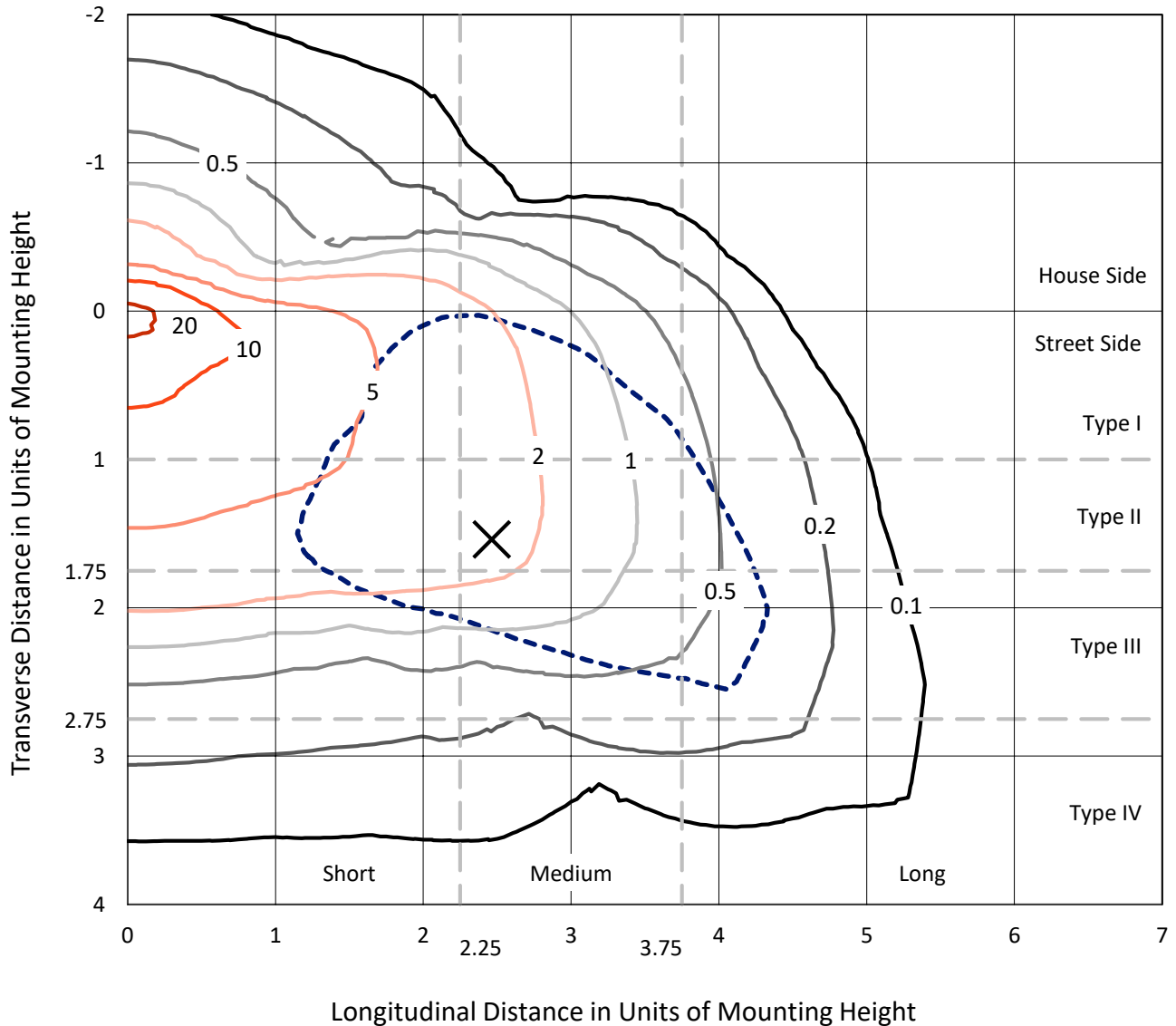
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

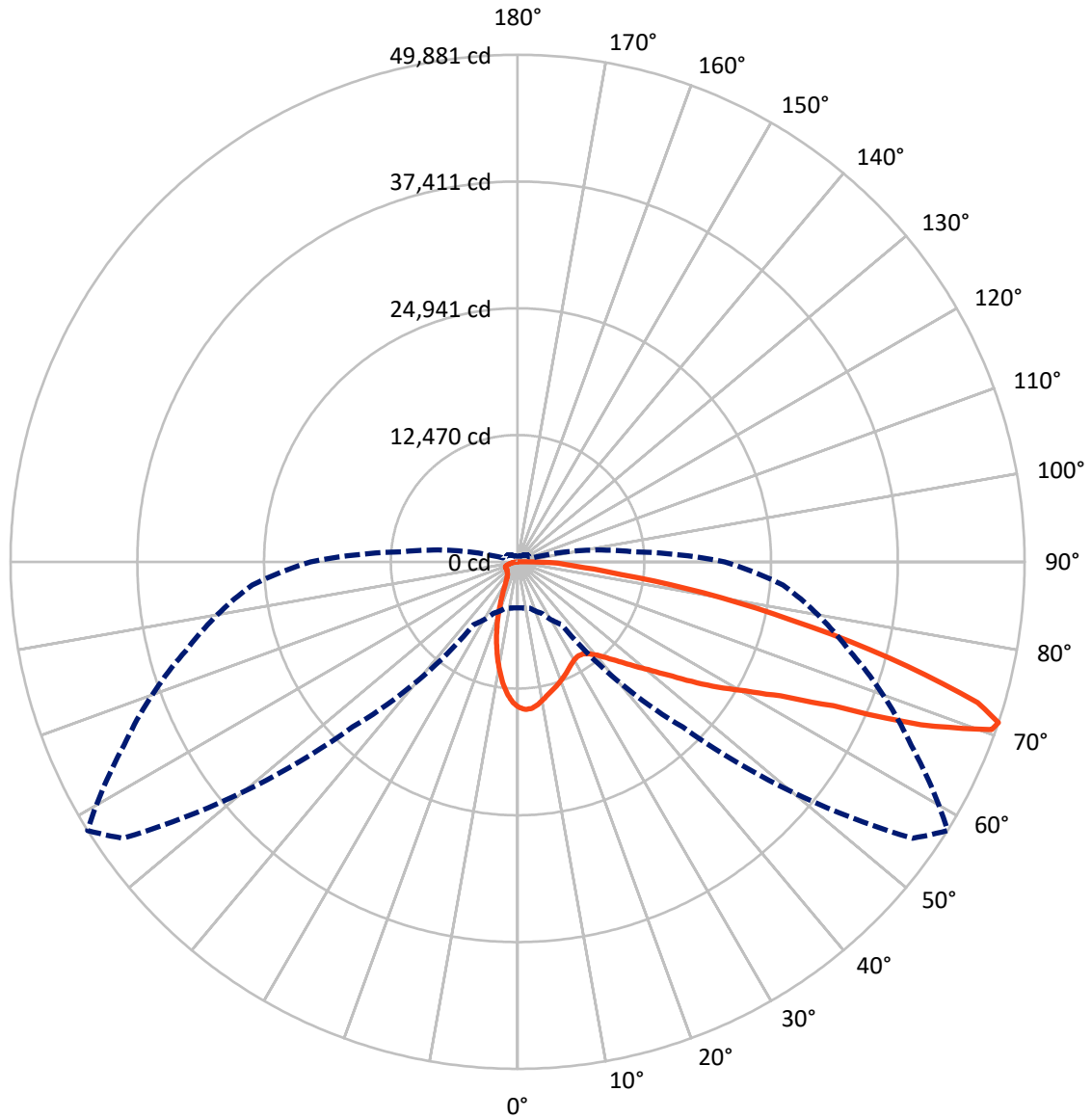
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.9 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	7718.6	0.0	7718.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	43908.4	0.0	43908.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	51627.0	0.0	51627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1234.0	2.4
10°-20°	2744.0	5.3
20°-30°	3487.3	6.8
30°-40°	4442.1	8.6
40°-50°	6299.2	12.2
50°-60°	9748.2	18.9
60°-70°	13271.0	25.7
70°-80°	8853.3	17.1
80°-90°	1547.9	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°	51627.0	100.0
0°-180°	51627.0	100.0

Coefficient of Utilization

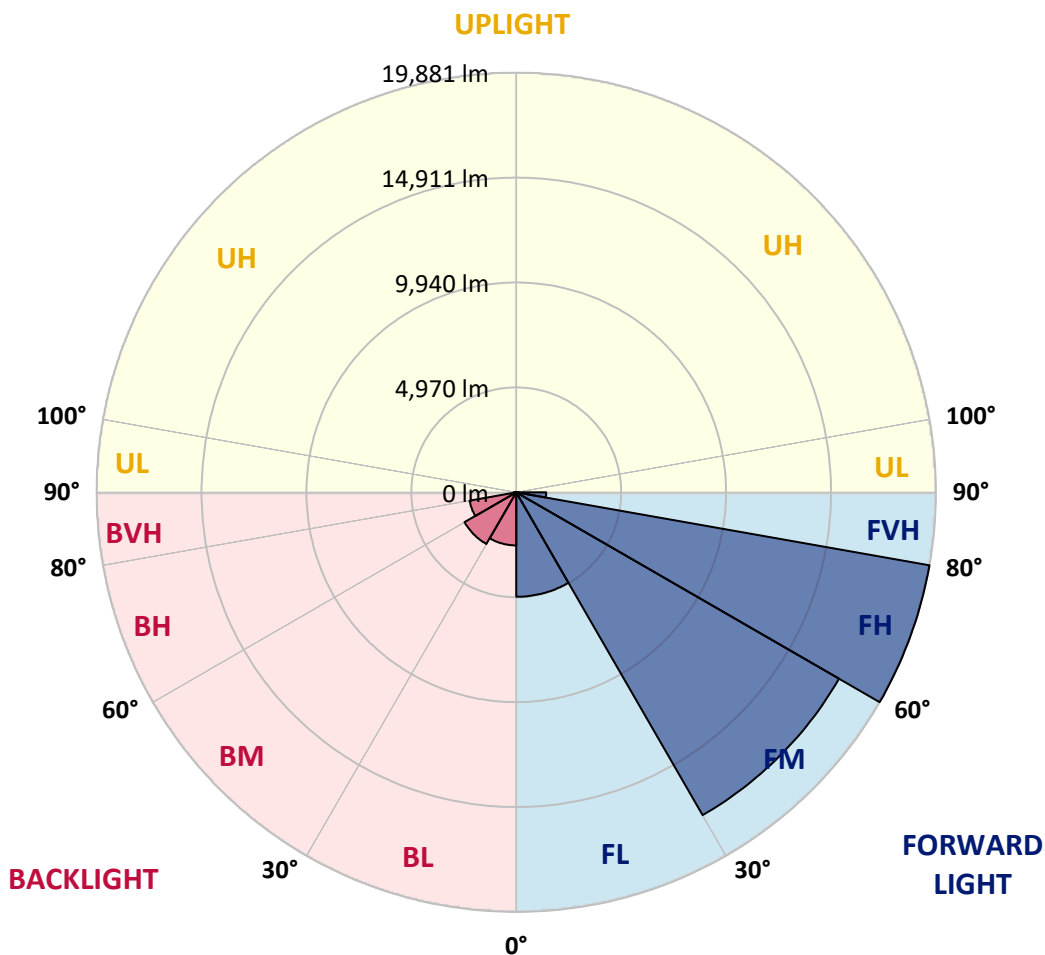


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4949.3	9.6			
FM (30°-60°)	17658.9	34.2			
FH (60°-80°)	19880.9	38.5			G5
FVH (80°-90°)	1419.3	2.7			G5
BL (0°-30°)	2516.0	4.9	B4/5000		
BM (30°-60°)	2830.6	5.5	B3/5000		
BH (60°-80°)	2243.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	128.6	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	14304.1	14304.1	14304.1	14304.1	14304.1	14304.1	14304.1	14304.1	14304.1	14304.1	14304.1
2.5°	14683.6	14663.8	14671.0	14656.6	14622.4	14588.3	14537.9	14546.9	14476.8	14372.5	14243.0
5°	14406.6	14399.4	14453.4	14484.0	14509.1	14489.4	14475.0	14493.0	14390.5	14246.6	14021.8
7.5°	13825.8	13746.6	13815.0	13917.5	14014.6	14088.3	14185.4	14198.0	14133.3	13982.2	13687.3
10°	13000.3	12924.8	13025.5	13185.6	13379.8	13556.0	13752.0	13788.0	13800.6	13663.9	13306.0
12.5°	12144.3	12086.8	12187.5	12412.3	12734.2	13005.7	13318.6	13372.6	13484.1	13392.4	12953.6
15°	11378.2	11356.6	11478.9	11700.1	12070.6	12486.0	12937.4	13036.3	13225.1	13194.5	12678.4
17.5°	10716.4	10711.0	10804.5	11036.5	11446.5	11971.7	12557.9	12725.2	13005.7	13041.7	12451.8
20°	10223.7	10212.9	10277.6	10448.5	10871.1	11466.3	12147.9	12378.1	12782.7	12908.6	12218.0
22.5°	9959.3	9957.5	9959.3	10040.2	10385.5	10939.4	11748.7	12029.2	12565.1	12802.5	11959.1
25°	9914.3	9908.9	9869.4	9860.4	10056.4	10498.8	11353.0	11662.3	12358.3	12728.8	11712.7
27.5°	10031.2	10038.4	9986.3	9901.8	9941.3	10209.3	11009.5	11340.4	12192.9	12714.4	11541.9
30°	10274.0	10270.4	10225.5	10137.3	10060.0	10101.4	10765.0	11095.9	12081.4	12777.3	11425.0
32.5°	10542.0	10561.7	10552.8	10504.2	10389.1	10223.7	10691.2	11014.9	12049.0	12928.4	11374.6
35°	10863.9	10885.5	10950.2	10988.0	10853.1	10586.9	10849.5	11130.0	12142.5	13212.5	11455.5
37.5°	11169.6	11225.3	11407.0	11567.0	11451.9	11155.2	11270.3	11469.9	12432.0	13660.3	11673.1
40°	11522.1	11570.6	11867.4	12207.2	12189.3	11881.7	11948.3	12081.4	12942.8	14302.3	12067.0
42.5°	11869.2	11966.3	12396.1	12878.0	13016.5	12745.0	12851.1	12921.2	13662.1	15153.0	12753.9
45°	12331.3	12435.6	13032.7	13613.6	13937.3	13784.4	13953.5	13980.4	14566.7	16311.1	13752.0
47.5°	13030.9	13149.6	13845.5	14455.2	14949.7	14965.9	15244.7	15233.9	15696.1	17636.5	15009.1
50°	14120.7	14291.5	14861.6	15431.7	16032.4	16366.8	16739.1	16687.0	17050.2	19048.2	16456.8
52.5°	15548.6	15627.7	16050.3	16471.2	17217.5	17967.4	18501.5	18454.7	18586.0	20499.5	18100.5
55°	17028.6	17088.0	17262.4	17492.6	18496.1	19719.0	20848.4	20774.6	20441.9	22006.5	19724.4
57.5°	18359.4	18479.9	18600.4	18695.7	19783.7	21549.7	23249.2	23254.6	22456.1	23632.2	21402.2
60°	18566.2	18672.3	19469.0	20220.7	21986.7	23991.9	25819.0	25765.1	24540.4	25396.4	23272.5
62.5°	16411.8	16651.0	17981.8	19981.5	24108.8	28459.0	29097.4	29030.9	27032.9	27570.6	25450.3
65°	11761.3	12032.8	13638.7	16643.8	23080.1	33381.1	35014.0	34118.4	30431.8	30244.8	28000.4
67.5°	6785.2	6849.9	7545.9	9959.3	17573.5	33638.3	44040.0	42786.5	35710.0	33278.6	29248.5
70°	5017.4	5015.6	5181.1	6128.8	9509.7	27453.7	48332.6	49456.6	41266.9	34276.7	27484.3
71°	4537.3	4542.6	4727.9	5578.5	7531.5	22979.4	47420.9	49881.0	42730.8	33783.9	26207.5
72.5°	3880.9	3898.8	4156.0	5003.0	6335.6	15847.1	43493.3	47334.6	43424.9	32568.2	24209.5
75°	2943.9	2985.3	3341.3	4217.1	5790.7	8036.9	31920.8	37797.9	38576.6	28737.7	17989.0
77.5°	2100.5	2147.2	2550.1	3546.4	5504.8	6056.9	21377.1	27570.6	28388.9	18417.0	8114.2
80°	1327.2	1382.9	1686.9	2821.6	5172.1	5751.1	13433.7	18532.1	15480.3	5893.2	2064.5
82.5°	778.7	821.8	1046.6	1843.3	4224.3	5538.9	7903.8	10272.2	6024.5	1780.4	938.7
85°	451.4	471.2	652.8	1174.3	3068.0	5227.8	5806.9	5742.2	2614.8	870.4	444.2
87.5°	210.4	233.8	386.6	613.2	1703.0	3789.1	4589.4	3965.4	1625.7	408.2	208.6
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°	14304.1	14304.1	14304.1	14304.1	14304.1	14304.1	14304.1	14304.1	14304.1	14304.1	14304.1
2.5°	14180.0	14149.5	14021.8	13908.5	13789.8	13635.1	13464.3	13442.7	13338.4	13358.2	13322.2
5°	13899.5	13822.2	13514.7	13235.9	12906.8	12611.9	12291.8	12144.3	11932.1	11917.7	11863.8
7.5°	13498.5	13354.6	12878.0	12349.3	11820.6	11317.1	10818.9	10491.6	10157.1	10015.0	10002.5
10°	13047.1	12802.5	12101.1	11318.9	10556.4	9820.8	9108.7	8581.8	8107.0	7882.2	7873.2
12.5°	12619.1	12257.6	11295.5	10230.9	9187.8	8234.7	7258.2	6565.8	5970.5	5770.9	5686.4
15°	12255.8	11746.9	10511.4	9150.0	7884.0	6560.4	5449.0	4720.7	4170.4	3979.8	3943.8
17.5°	11903.3	11248.7	9707.5	8058.4	6528.0	5073.2	3960.0	3418.7	3125.5	3048.2	3046.4
20°	11552.6	10736.2	8867.7	6941.7	5217.0	3794.5	3044.6	2801.8	2702.9	2693.9	2679.6
22.5°	11155.2	10193.1	7984.7	5821.3	4071.5	2983.5	2587.8	2490.7	2478.1	2510.5	2510.5
25°	10782.9	9653.6	7089.1	4724.3	3166.9	2488.9	2310.9	2291.1	2325.3	2382.8	2388.2
27.5°	10435.9	9133.9	6215.1	3749.6	2537.5	2192.2	2118.5	2141.8	2203.0	2269.5	2271.3
30°	10149.9	8642.9	5366.3	2954.7	2143.6	1971.0	1958.4	2005.2	2071.7	2123.9	2136.4
32.5°	9928.7	8223.9	4546.2	2375.6	1886.5	1805.6	1816.3	1855.9	1897.3	1926.0	1945.8
35°	9826.2	7864.2	3789.1	2003.4	1722.8	1677.9	1692.3	1713.8	1731.8	1753.4	1769.6
37.5°	9844.2	7585.5	3113.0	1771.4	1613.1	1589.7	1589.7	1589.7	1589.7	1600.5	1602.3
40°	10011.5	7425.4	2562.7	1623.9	1539.4	1514.2	1494.4	1476.5	1462.1	1469.3	1465.7
42.5°	10439.5	7411.0	2159.8	1530.4	1480.0	1438.7	1399.1	1373.9	1356.0	1363.2	1366.8
45°	11166.0	7590.9	1888.3	1463.9	1424.3	1361.4	1311.0	1284.0	1271.4	1294.8	1298.4
47.5°	12106.5	7982.9	1722.8	1415.3	1372.1	1289.4	1235.5	1210.3	1213.9	1248.1	1257.1
50°	13318.6	8619.5	1643.7	1384.7	1336.2	1228.3	1172.5	1150.9	1161.7	1210.3	1221.1
52.5°	14649.4	9536.7	1652.7	1375.7	1312.8	1183.3	1124.0	1098.8	1116.8	1161.7	1170.7
55°	16185.2	10639.1	1802.0	1388.3	1278.6	1154.5	1084.4	1041.2	1055.6	1097.0	1104.2
57.5°	17891.9	11901.5	2102.3	1384.7	1235.5	1127.6	1043.0	978.3	989.1	1014.3	1021.5
60°	19668.6	13426.5	2568.1	1395.5	1215.7	1095.2	987.3	906.4	902.8	924.4	928.0
62.5°	21801.5	15190.7	3100.4	1402.7	1228.3	1053.8	913.6	834.4	823.6	829.0	832.6
65°	23999.1	16467.6	2900.7	1373.9	1267.8	1019.7	848.8	764.3	744.5	740.9	742.7
67.5°	24067.4	15099.0	2033.9	1316.4	1284.0	1001.7	800.3	705.0	672.6	660.0	658.2
70°	21583.9	12266.6	1584.4	1255.3	1219.3	972.9	755.3	656.4	607.8	588.1	586.3
71°	20371.8	11291.9	1501.6	1224.7	1170.7	944.1	735.5	634.8	584.5	562.9	559.3
72.5°	18470.9	10123.0	1400.9	1176.1	1077.2	870.4	697.8	604.2	552.1	526.9	521.5
75°	13255.7	6619.8	1203.1	1048.4	892.0	694.2	611.4	543.1	498.1	467.6	464.0
77.5°	5107.3	2634.6	910.0	872.2	683.4	543.1	503.5	469.4	437.0	406.4	404.6
80°	1579.0	1177.9	663.6	656.4	494.5	404.6	392.0	383.1	370.5	338.1	330.9
82.5°	843.4	676.2	456.8	424.4	323.7	269.8	284.1	287.7	289.5	255.4	251.8
85°	402.8	357.9	257.2	241.0	188.8	151.1	174.4	188.8	190.6	156.5	145.7
87.5°	192.4	187.0	120.5	91.7	70.1	50.4	61.1	75.5	82.7	59.3	52.2
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)