

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: P319643

Luminaire Tested: **GAN-SA9B-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319643
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-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 46529 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

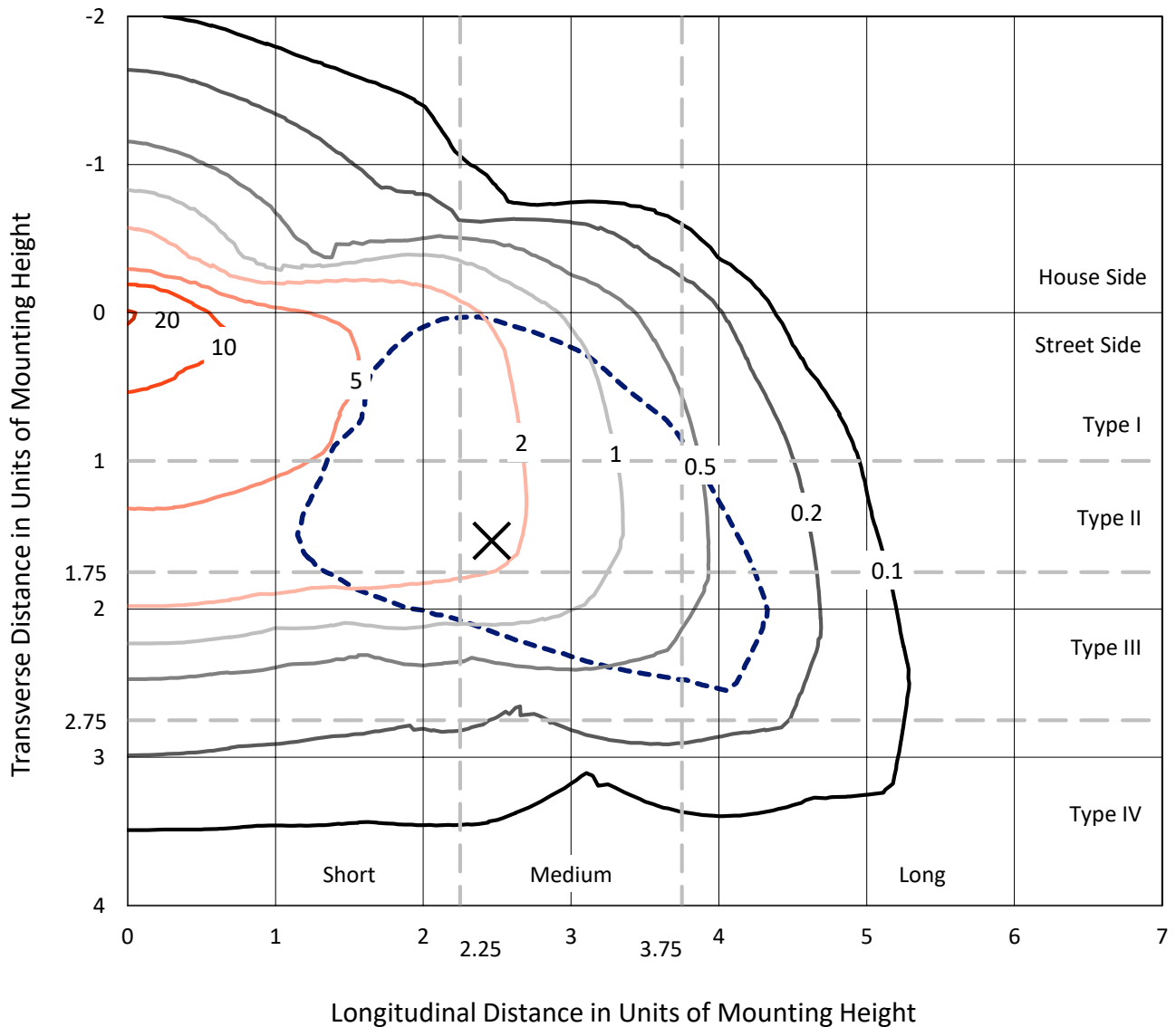
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

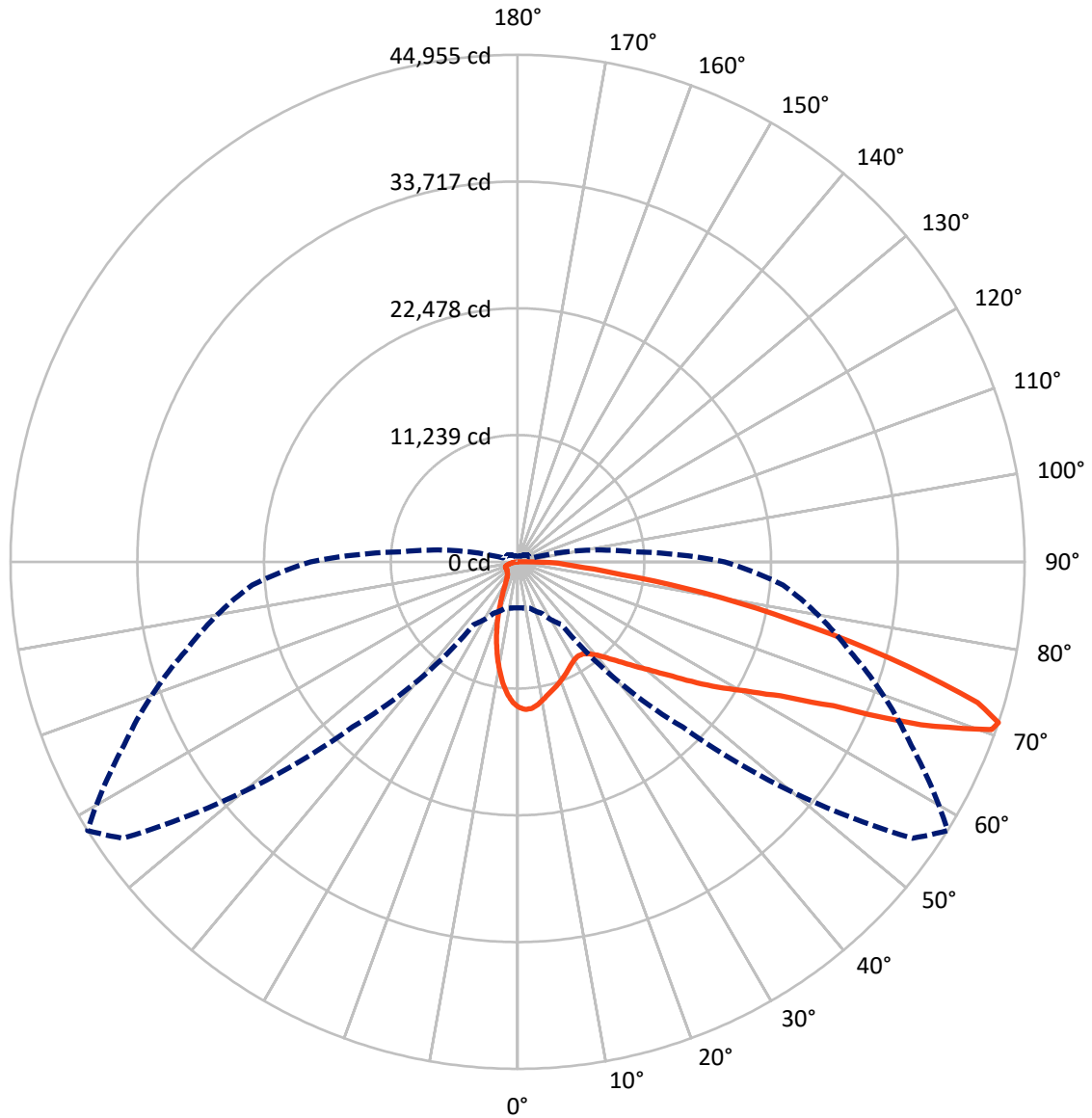
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 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	6956.4	0.0	6956.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	39572.6	0.0	39572.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	46529.0	0.0	46529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1112.2	2.4
10°-20°	2473.0	5.3
20°-30°	3143.0	6.8
30°-40°	4003.5	8.6
40°-50°	5677.2	12.2
50°-60°	8785.6	18.9
60°-70°	11960.5	25.7
70°-80°	7979.0	17.1
80°-90°	1395.0	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°	46529.0	100.0
0°-180°	46529.0	100.0

Coefficient of Utilization

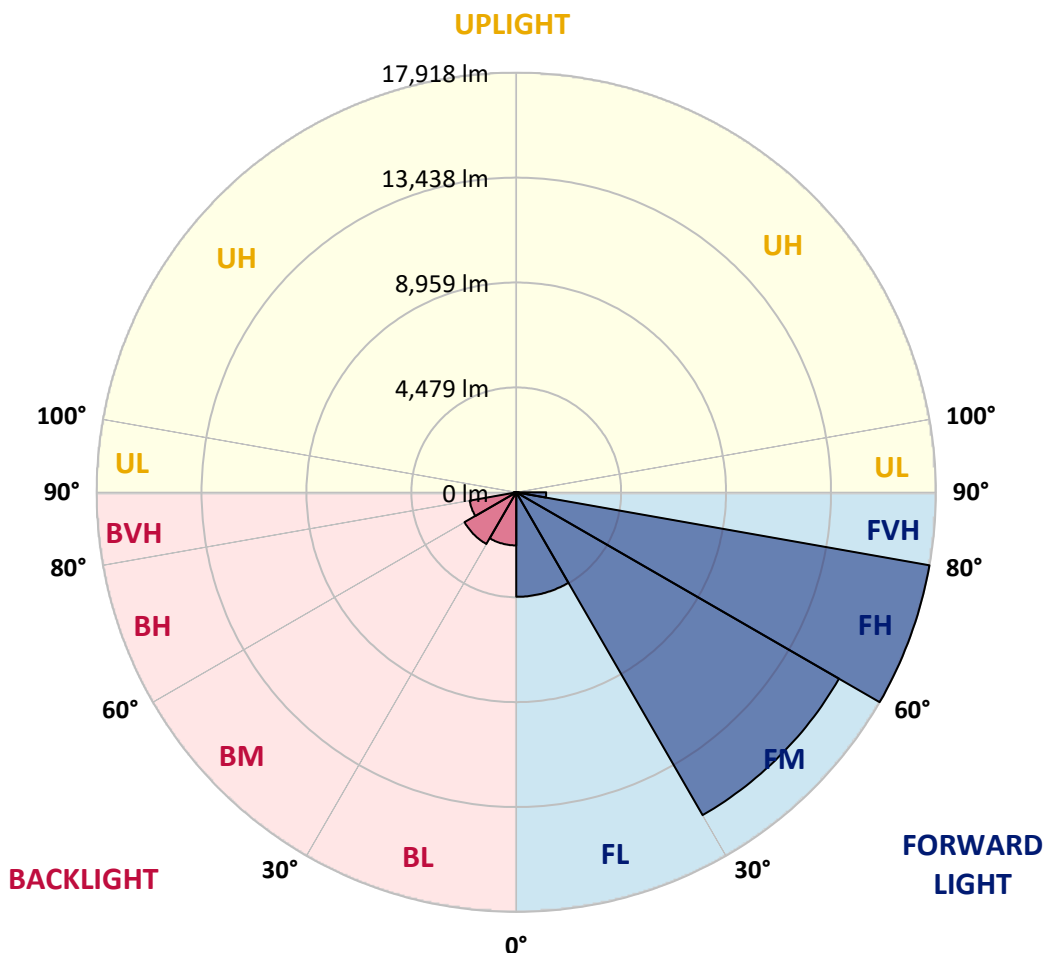


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4460.6	9.6			
FM (30°-60°)	15915.2	34.2			
FH (60°-80°)	17917.7	38.5			G5
FVH (80°-90°)	1279.1	2.7			G5
BL (0°-30°)	2267.6	4.9	B3/2500		
BM (30°-60°)	2551.1	5.5	B3/5000		
BH (60°-80°)	2021.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	115.9	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°	12891.6	12891.6	12891.6	12891.6	12891.6	12891.6	12891.6	12891.6	12891.6	12891.6	12891.6
2.5°	13233.6	13215.8	13222.3	13209.3	13178.5	13147.7	13102.3	13110.4	13047.2	12953.2	12836.5
5°	12984.0	12977.5	13026.2	13053.7	13076.4	13058.6	13045.6	13061.8	12969.4	12839.8	12637.2
7.5°	12460.5	12389.2	12450.8	12543.2	12630.7	12697.2	12784.7	12796.0	12737.7	12601.5	12335.7
10°	11716.6	11648.5	11739.3	11883.5	12058.6	12217.4	12394.1	12426.5	12437.8	12314.6	11992.1
12.5°	10945.1	10893.2	10984.0	11186.6	11476.7	11721.4	12003.5	12052.1	12152.6	12069.9	11674.4
15°	10254.6	10235.2	10345.4	10544.8	10878.6	11253.0	11659.9	11749.0	11919.2	11891.6	11426.5
17.5°	9658.2	9653.3	9737.6	9946.7	10316.2	10789.5	11317.9	11468.6	11721.4	11753.9	11222.2
20°	9214.1	9204.4	9262.7	9416.7	9797.6	10334.1	10948.3	11155.8	11520.5	11633.9	11011.5
22.5°	8975.9	8974.2	8975.9	9048.8	9360.0	9859.2	10588.5	10841.4	11324.4	11538.3	10778.2
25°	8935.3	8930.5	8894.8	8886.7	9063.4	9462.1	10232.0	10510.7	11138.0	11471.8	10556.1
27.5°	9040.7	9047.2	9000.2	8924.0	8959.6	9201.1	9922.4	10220.6	10988.9	11458.9	10402.1
30°	9259.5	9256.2	9215.7	9136.3	9066.6	9103.9	9702.0	10000.2	10888.4	11515.6	10296.8
32.5°	9501.0	9518.8	9510.7	9466.9	9363.2	9214.1	9635.5	9927.2	10859.2	11651.8	10251.4
35°	9791.1	9810.6	9868.9	9902.9	9781.4	9541.5	9778.1	10031.0	10943.5	11907.8	10324.3
37.5°	10066.6	10116.9	10280.6	10424.8	10321.1	10053.7	10157.4	10337.3	11204.4	12311.4	10520.4
40°	10384.3	10428.1	10695.5	11001.8	10985.6	10708.5	10768.4	10888.4	11664.7	12890.0	10875.4
42.5°	10697.1	10784.6	11172.0	11606.4	11731.2	11486.4	11582.1	11645.3	12313.0	13656.6	11494.5
45°	11113.7	11207.7	11745.8	12269.3	12561.0	12423.2	12575.6	12599.9	13128.3	14700.4	12394.1
47.5°	11744.1	11851.1	12478.3	13027.8	13473.5	13488.1	13739.3	13729.6	14146.1	15894.9	13527.0
50°	12726.3	12880.3	13394.1	13907.9	14449.2	14750.7	15086.2	15039.2	15366.6	17167.2	14831.7
52.5°	14013.2	14084.5	14465.4	14844.7	15517.3	16193.2	16674.5	16632.4	16750.7	18475.2	16313.1
55°	15347.1	15400.6	15557.8	15765.3	16669.7	17771.8	18789.6	18723.2	18423.3	19833.4	17776.7
57.5°	16546.5	16655.1	16763.7	16849.6	17830.1	19421.7	20953.4	20958.2	20238.6	21298.6	19288.8
60°	16732.9	16828.5	17546.5	18224.0	19815.6	21622.8	23269.5	23220.8	22117.1	22888.6	20974.4
62.5°	14791.2	15006.8	16206.1	18008.4	21728.1	25648.8	26224.1	26164.2	24363.5	24848.1	22937.2
65°	10599.9	10844.6	12292.0	15000.3	20801.0	30084.8	31556.5	30749.3	27426.8	27258.2	25235.5
67.5°	6115.2	6173.5	6800.8	8975.9	15838.2	30316.6	39691.2	38561.5	32183.7	29992.4	26360.3
70°	4522.0	4520.3	4669.5	5523.6	8570.7	24742.7	43559.9	44572.9	37191.9	30892.0	24770.3
71°	4089.2	4094.1	4261.0	5027.6	6787.8	20710.3	42738.2	44955.4	38511.2	30447.9	23619.6
72.5°	3497.6	3513.8	3745.6	4509.0	5710.0	14282.3	39198.4	42660.4	39136.9	29352.2	21818.9
75°	2653.2	2690.5	3011.4	3800.7	5218.9	7243.2	28768.8	34065.4	34767.2	25900.0	16212.6
77.5°	1893.1	1935.2	2298.3	3196.2	4961.2	5458.8	19266.2	24848.1	25585.6	16598.4	7312.9
80°	1196.1	1246.4	1520.3	2543.0	4661.3	5183.2	12107.2	16702.1	13951.6	5311.3	1860.6
82.5°	701.8	740.7	943.3	1661.3	3807.2	4992.0	7123.3	9257.9	5429.6	1604.6	846.0
85°	406.8	424.6	588.3	1058.4	2765.0	4711.6	5233.5	5175.1	2356.6	784.5	400.3
87.5°	189.6	210.7	348.5	552.7	1534.9	3415.0	4136.2	3573.8	1465.2	367.9	188.0
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°	12891.6	12891.6	12891.6	12891.6	12891.6	12891.6	12891.6	12891.6	12891.6	12891.6	12891.6
2.5°	12779.8	12752.3	12637.2	12535.1	12428.1	12288.7	12134.7	12115.3	12021.3	12039.1	12006.7
5°	12527.0	12457.3	12180.1	11928.9	11632.3	11366.5	11078.0	10945.1	10753.8	10740.9	10692.3
7.5°	12165.5	12035.9	11606.4	11129.9	10653.4	10199.5	9750.6	9455.6	9154.1	9026.1	9014.7
10°	11758.7	11538.3	10906.2	10201.2	9513.9	8851.1	8209.2	7734.3	7306.5	7103.9	7095.8
12.5°	11373.0	11047.2	10180.1	9220.6	8280.5	7421.5	6541.4	5917.4	5381.0	5201.1	5124.9
15°	11045.6	10586.9	9473.4	8246.5	7105.5	5912.6	4910.9	4254.5	3758.6	3586.8	3554.4
17.5°	10727.9	10137.9	8748.9	7262.7	5883.4	4572.2	3568.9	3081.1	2816.9	2747.2	2745.6
20°	10411.9	9676.0	7992.0	6256.2	4701.9	3419.8	2744.0	2525.2	2436.0	2427.9	2415.0
22.5°	10053.7	9186.6	7196.2	5246.4	3669.4	2688.9	2332.3	2244.8	2233.4	2262.6	2262.6
25°	9718.2	8700.3	6389.1	4257.8	2854.2	2243.2	2082.7	2064.9	2095.7	2147.5	2152.4
27.5°	9405.4	8231.9	5601.4	3379.3	2286.9	1975.7	1909.3	1930.3	1985.4	2045.4	2047.0
30°	9147.7	7789.4	4836.4	2662.9	1932.0	1776.4	1765.0	1807.2	1867.1	1914.1	1925.5
32.5°	8948.3	7411.8	4097.3	2141.0	1700.2	1627.3	1637.0	1672.6	1709.9	1735.8	1753.7
35°	8855.9	7087.6	3415.0	1805.5	1552.7	1512.2	1525.1	1544.6	1560.8	1580.3	1594.8
37.5°	8872.1	6836.4	2805.6	1596.5	1453.8	1432.8	1432.8	1432.8	1432.8	1442.5	1444.1
40°	9022.9	6692.2	2309.6	1463.6	1387.4	1364.7	1346.9	1330.7	1317.7	1324.2	1320.9
42.5°	9408.6	6679.2	1946.6	1379.3	1333.9	1296.6	1261.0	1238.3	1222.1	1228.5	1231.8
45°	10063.4	6841.3	1701.8	1319.3	1283.7	1226.9	1181.5	1157.2	1145.9	1167.0	1170.2
47.5°	10911.1	7194.6	1552.7	1275.5	1236.7	1162.1	1113.5	1090.8	1094.0	1124.8	1132.9
50°	12003.5	7768.4	1481.4	1248.0	1204.2	1107.0	1056.7	1037.3	1047.0	1090.8	1100.5
52.5°	13202.8	8595.0	1489.5	1239.9	1183.2	1066.5	1013.0	990.3	1006.5	1047.0	1055.1
55°	14587.0	9588.5	1624.0	1251.2	1152.4	1040.5	977.3	938.4	951.4	988.7	995.2
57.5°	16125.1	10726.3	1894.7	1248.0	1113.5	1016.2	940.0	881.7	891.4	914.1	920.6
60°	17726.4	12100.7	2314.5	1257.7	1095.6	987.1	889.8	816.9	813.6	833.1	836.3
62.5°	19648.7	13690.7	2794.2	1264.2	1107.0	949.8	823.4	752.0	742.3	747.2	750.4
65°	21629.2	14841.4	2614.3	1238.3	1142.6	919.0	765.0	688.8	671.0	667.8	669.4
67.5°	21690.8	13608.0	1833.1	1186.4	1157.2	902.8	721.2	635.3	606.2	594.8	593.2
70°	19452.5	11055.3	1427.9	1131.3	1098.9	876.8	680.7	591.6	547.8	530.0	528.4
71°	18360.1	10176.8	1353.3	1103.7	1055.1	850.9	662.9	572.1	526.8	507.3	504.1
72.5°	16647.0	9123.3	1262.6	1060.0	970.8	784.5	628.9	544.6	497.6	474.9	470.0
75°	11946.7	5966.1	1084.3	944.9	803.9	625.6	551.1	489.5	449.0	421.4	418.2
77.5°	4603.0	2374.4	820.1	786.1	615.9	489.5	453.8	423.0	393.8	366.3	364.7
80°	1423.0	1061.6	598.1	591.6	445.7	364.7	353.3	345.2	333.9	304.7	298.2
82.5°	760.1	609.4	411.7	382.5	291.7	243.1	256.1	259.3	260.9	230.2	226.9
85°	363.1	322.5	231.8	217.2	170.2	136.1	157.2	170.2	171.8	141.0	131.3
87.5°	173.4	168.6	108.6	82.7	63.2	45.4	55.1	68.1	74.6	53.5	47.0
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)