

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: McGRAW-EDISON

Report Number: P319803

Luminaire Tested: **GLEON-SA9B-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319803
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: McGRAW-EDISON
Catalog Number: GLEON-SA9B-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 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: 37559 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

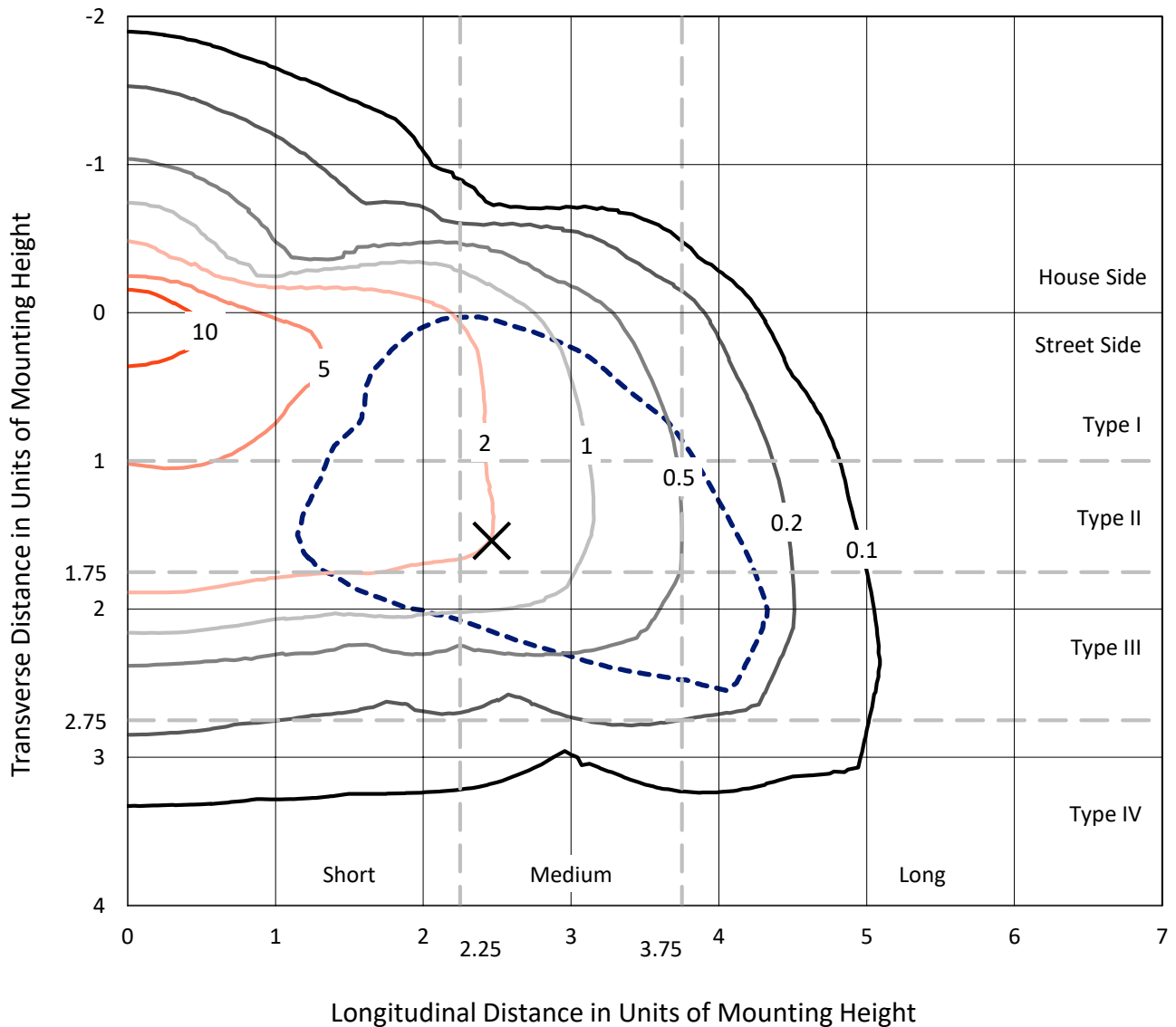
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

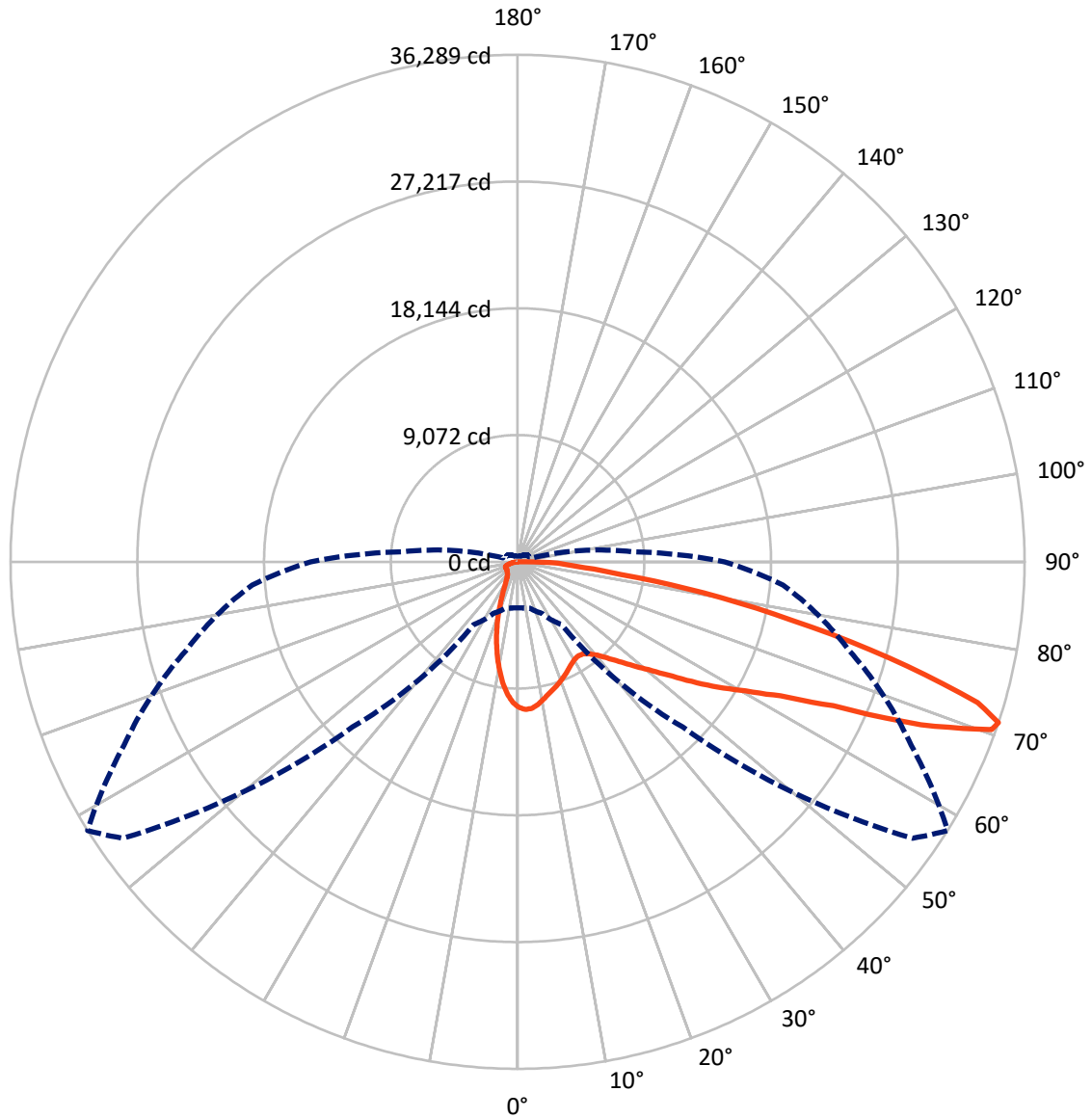
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 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	5615.3	0.0	5615.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	31943.7	0.0	31943.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	37559.0	0.0	37559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	897.8	2.4
10°-20°	1996.3	5.3
20°-30°	2537.1	6.8
30°-40°	3231.7	8.6
40°-50°	4582.7	12.2
50°-60°	7091.9	18.9
60°-70°	9654.7	25.7
70°-80°	6440.8	17.1
80°-90°	1126.1	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°	37559.0	100.0
0°-180°	37559.0	100.0

Coefficient of Utilization

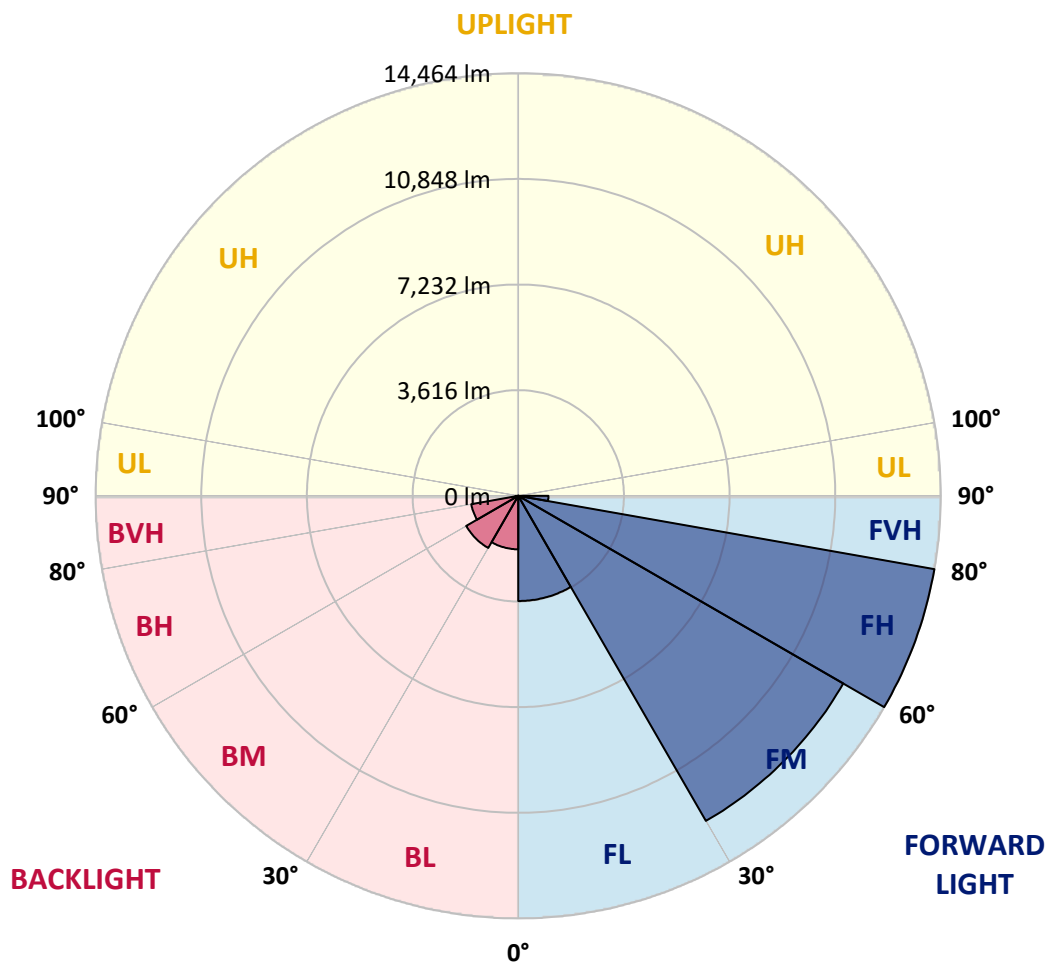


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3600.6	9.6			
FM (30°-60°)	12847.0	34.2			
FH (60°-80°)	14463.5	38.5			G5
FVH (80°-90°)	1032.5	2.7			G5
BL (0°-30°)	1830.4	4.9	B3/2500		
BM (30°-60°)	2059.3	5.5	B2/2500		
BH (60°-80°)	1632.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	93.6	0.2			G1/100
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°	10406.4	10406.4	10406.4	10406.4	10406.4	10406.4	10406.4	10406.4	10406.4	10406.4	10406.4
2.5°	10682.4	10668.0	10673.3	10662.8	10637.9	10613.1	10576.4	10583.0	10532.0	10456.1	10361.9
5°	10480.9	10475.7	10514.9	10537.2	10555.5	10541.1	10530.6	10543.7	10469.2	10364.5	10200.9
7.5°	10058.3	10000.8	10050.5	10125.1	10195.7	10249.4	10320.0	10329.2	10282.1	10172.2	9957.6
10°	9457.8	9402.9	9476.1	9592.6	9733.9	9862.1	10004.7	10030.9	10040.0	9940.6	9680.2
12.5°	8835.1	8793.2	8866.5	9030.0	9264.2	9461.7	9689.4	9728.6	9809.8	9743.0	9423.8
15°	8277.7	8262.0	8351.0	8511.9	8781.4	9083.6	9412.0	9484.0	9621.4	9599.1	9223.6
17.5°	7796.3	7792.3	7860.4	8029.1	8327.4	8709.5	9136.0	9257.7	9461.7	9487.9	9058.8
20°	7437.8	7429.9	7477.0	7601.3	7908.8	8341.8	8837.7	9005.1	9299.5	9391.1	8888.7
22.5°	7245.5	7244.2	7245.5	7304.3	7555.5	7958.5	8547.2	8751.3	9141.2	9313.9	8700.3
25°	7212.8	7208.8	7180.0	7173.5	7316.1	7638.0	8259.4	8484.4	8990.8	9260.3	8521.1
27.5°	7297.8	7303.0	7265.1	7203.6	7232.4	7427.3	8009.5	8250.2	8870.4	9249.8	8396.8
30°	7474.4	7471.8	7439.1	7375.0	7318.7	7348.8	7831.6	8072.3	8789.3	9295.6	8311.7
32.5°	7669.4	7683.7	7677.2	7641.9	7558.1	7437.8	7777.9	8013.4	8765.7	9405.5	8275.1
35°	7903.5	7919.2	7966.3	7993.8	7895.7	7702.1	7893.1	8097.2	8833.8	9612.2	8334.0
37.5°	8126.0	8166.5	8298.7	8415.1	8331.4	8115.5	8199.2	8344.4	9044.4	9938.0	8492.3
40°	8382.4	8417.7	8633.6	8880.9	8867.8	8644.1	8692.5	8789.3	9416.0	10405.0	8778.8
42.5°	8634.9	8705.5	9018.2	9368.9	9469.6	9272.0	9349.2	9400.3	9939.3	11023.9	9278.6
45°	8971.1	9047.0	9481.4	9904.0	10139.5	10028.3	10151.2	10170.9	10597.4	11866.4	10004.7
47.5°	9480.1	9566.4	10072.7	10516.3	10876.0	10887.8	11090.6	11082.8	11419.0	12830.7	10919.2
50°	10272.9	10397.2	10811.9	11226.7	11663.6	11907.0	12177.8	12139.9	12404.2	13857.7	11972.4
52.5°	11311.7	11369.3	11676.7	11982.9	12525.8	13071.4	13460.0	13425.9	13521.5	14913.5	13168.2
55°	12388.5	12431.6	12558.5	12726.0	13456.0	14345.7	15167.3	15113.7	14871.6	16009.9	14349.6
57.5°	13356.6	13444.3	13531.9	13601.3	14392.8	15677.6	16913.9	16917.8	16337.0	17192.6	15570.3
60°	13507.1	13584.3	14163.8	14710.7	15995.5	17454.3	18783.5	18744.3	17853.3	18476.1	16930.9
62.5°	11939.7	12113.7	13081.9	14536.7	17539.3	20704.1	21168.6	21120.2	19666.6	20057.8	18515.3
65°	8556.4	8753.9	9922.3	12108.5	16790.9	24285.0	25472.9	24821.4	22139.3	22003.3	20370.5
67.5°	4936.3	4983.4	5489.7	7245.5	12784.9	24472.1	32039.4	31127.5	25979.3	24210.4	21278.5
70°	3650.2	3648.9	3769.3	4458.7	6918.4	19972.8	35162.3	35980.0	30022.0	24936.5	19995.0
71°	3300.9	3304.8	3439.6	4058.4	5479.2	16717.7	34499.0	36288.8	31086.9	24578.0	19066.1
72.5°	2823.3	2836.4	3023.5	3639.7	4609.2	11528.9	31641.6	34436.2	31591.9	23693.6	17612.6
75°	2141.7	2171.8	2430.9	3068.0	4212.8	5846.9	23222.6	27498.2	28064.7	20906.9	13087.1
77.5°	1528.1	1562.1	1855.2	2580.0	4004.8	4406.4	15552.0	20057.8	20653.1	13398.5	5903.1
80°	965.5	1006.1	1227.2	2052.7	3762.7	4184.0	9773.1	13482.2	11262.0	4287.4	1501.9
82.5°	566.5	597.9	761.4	1341.0	3073.2	4029.6	5750.1	7473.1	4382.9	1295.2	682.9
85°	328.4	342.8	474.9	854.3	2232.0	3803.3	4224.6	4177.5	1902.3	633.2	323.2
87.5°	153.1	170.1	281.3	446.1	1239.0	2756.6	3338.8	2884.8	1182.7	297.0	151.8
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°	10406.4	10406.4	10406.4	10406.4	10406.4	10406.4	10406.4	10406.4	10406.4	10406.4	10406.4
2.5°	10316.1	10293.8	10200.9	10118.5	10032.2	9919.7	9795.4	9779.7	9703.8	9718.2	9692.0
5°	10112.0	10055.7	9832.0	9629.2	9389.8	9175.2	8942.3	8835.1	8680.7	8670.2	8631.0
7.5°	9820.2	9715.6	9368.9	8984.2	8599.6	8233.2	7870.8	7632.7	7389.4	7286.0	7276.9
10°	9491.8	9313.9	8803.7	8234.5	7679.8	7144.7	6626.6	6243.3	5897.9	5734.4	5727.8
12.5°	9180.5	8917.5	8217.5	7443.0	6684.2	5990.8	5280.4	4776.7	4343.6	4198.4	4136.9
15°	8916.2	8545.9	7647.1	6656.7	5735.7	4772.7	3964.2	3434.3	3034.0	2895.3	2869.1
17.5°	8659.8	8183.5	7062.3	5862.6	4749.2	3690.8	2880.9	2487.1	2273.9	2217.6	2216.3
20°	8404.6	7810.7	6451.3	5050.1	3795.4	2760.5	2215.0	2038.4	1966.4	1959.9	1949.4
22.5°	8115.5	7415.5	5808.9	4235.0	2962.0	2170.5	1882.7	1812.0	1802.9	1826.4	1826.4
25°	7844.7	7023.0	5157.4	3436.9	2303.9	1810.7	1681.2	1666.8	1691.7	1733.5	1737.4
27.5°	7592.2	6644.9	4521.5	2727.8	1846.0	1594.8	1541.2	1558.2	1602.7	1651.1	1652.4
30°	7384.1	6287.8	3904.0	2149.6	1559.5	1433.9	1424.8	1458.8	1507.2	1545.1	1554.3
32.5°	7223.2	5982.9	3307.4	1728.3	1372.4	1313.6	1321.4	1350.2	1380.3	1401.2	1415.6
35°	7148.6	5721.3	2756.6	1457.5	1253.4	1220.7	1231.1	1246.8	1259.9	1275.6	1287.4
37.5°	7161.7	5518.5	2264.7	1288.7	1173.6	1156.6	1156.6	1156.6	1156.6	1164.4	1165.7
40°	7283.4	5402.0	1864.4	1181.4	1119.9	1101.6	1087.2	1074.1	1063.7	1068.9	1066.3
42.5°	7594.8	5391.6	1571.3	1113.4	1076.7	1046.7	1017.9	999.6	986.5	991.7	994.3
45°	8123.3	5522.4	1373.7	1065.0	1036.2	990.4	953.8	934.1	925.0	942.0	944.6
47.5°	8807.6	5807.6	1253.4	1029.6	998.2	938.1	898.8	880.5	883.1	908.0	914.5
50°	9689.4	6270.8	1195.8	1007.4	972.1	893.6	853.0	837.3	845.2	880.5	888.3
52.5°	10657.6	6938.0	1202.3	1000.9	955.1	860.9	817.7	799.4	812.5	845.2	851.7
55°	11774.9	7740.0	1310.9	1010.0	930.2	839.9	788.9	757.5	768.0	798.1	803.3
57.5°	13016.4	8658.4	1529.4	1007.4	898.8	820.3	758.8	711.7	719.6	737.9	743.1
60°	14309.1	9767.9	1868.3	1015.3	884.4	796.8	718.3	659.4	656.8	672.5	675.1
62.5°	15860.7	11051.4	2255.5	1020.5	893.6	766.7	664.6	607.1	599.2	603.1	605.8
65°	17459.5	11980.3	2110.3	999.6	922.4	741.8	617.5	556.0	541.6	539.0	540.3
67.5°	17509.2	10984.6	1479.7	957.7	934.1	728.7	582.2	512.9	489.3	480.2	478.8
70°	15702.4	8924.0	1152.6	913.2	887.0	707.8	549.5	477.5	442.2	427.8	426.5
71°	14820.6	8214.9	1092.4	891.0	851.7	686.9	535.1	461.8	425.2	409.5	406.9
72.5°	13437.7	7364.5	1019.2	855.6	783.7	633.2	507.6	439.6	401.7	383.3	379.4
75°	9643.6	4815.9	875.3	762.7	648.9	505.0	444.8	395.1	362.4	340.2	337.5
77.5°	3715.6	1916.7	662.0	634.5	497.2	395.1	366.3	341.5	317.9	295.7	294.4
80°	1148.7	856.9	482.8	477.5	359.8	294.4	285.2	278.7	269.5	246.0	240.7
82.5°	613.6	491.9	332.3	308.8	235.5	196.2	206.7	209.3	210.6	185.8	183.2
85°	293.1	260.4	187.1	175.3	137.4	109.9	126.9	137.4	138.7	113.8	106.0
87.5°	140.0	136.1	87.7	66.7	51.0	36.6	44.5	54.9	60.2	43.2	37.9
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)