

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: P319823

Luminaire Tested: **GLEON-SA9D-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319823
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-SA9D-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA 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: 50997 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

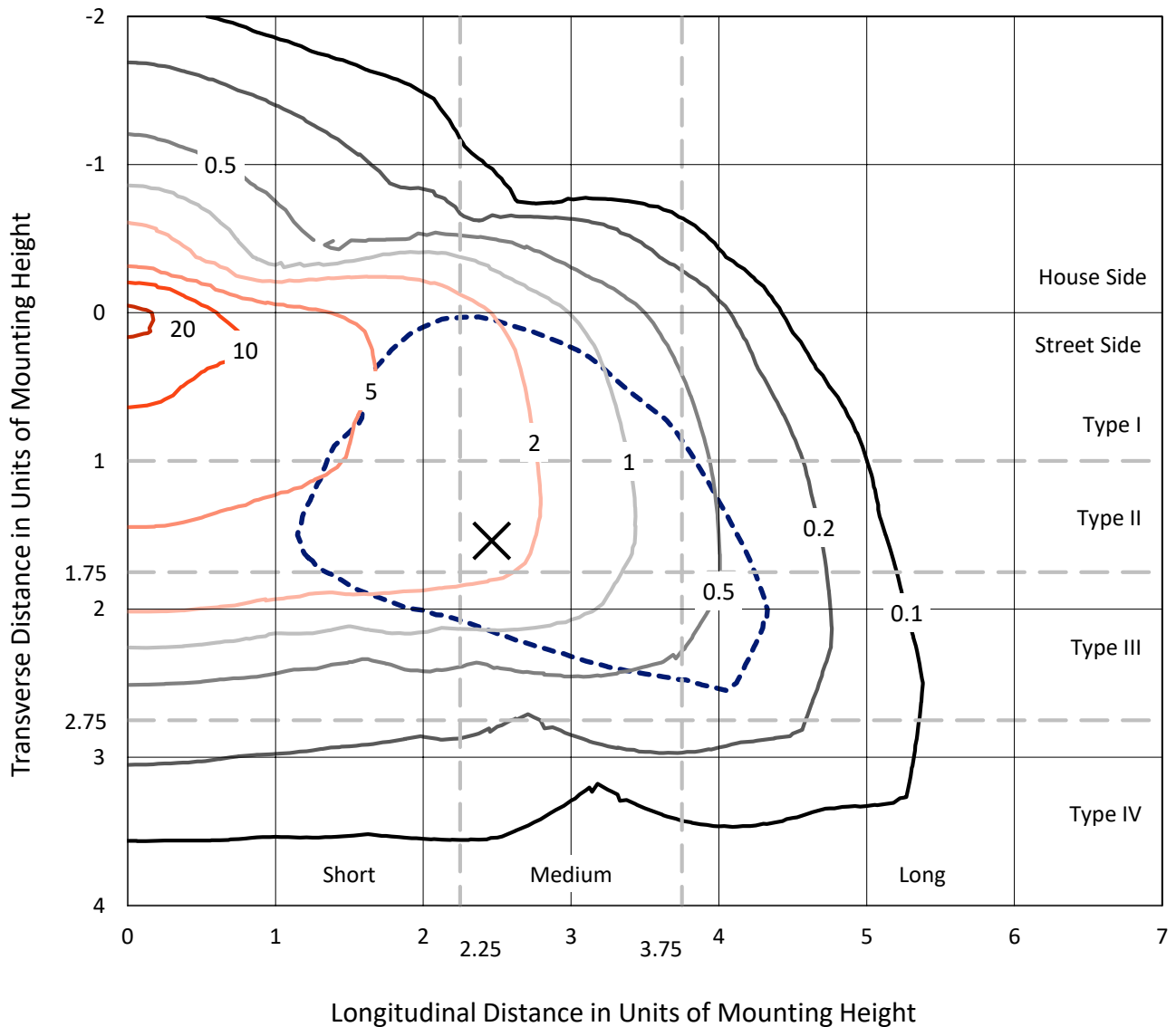
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

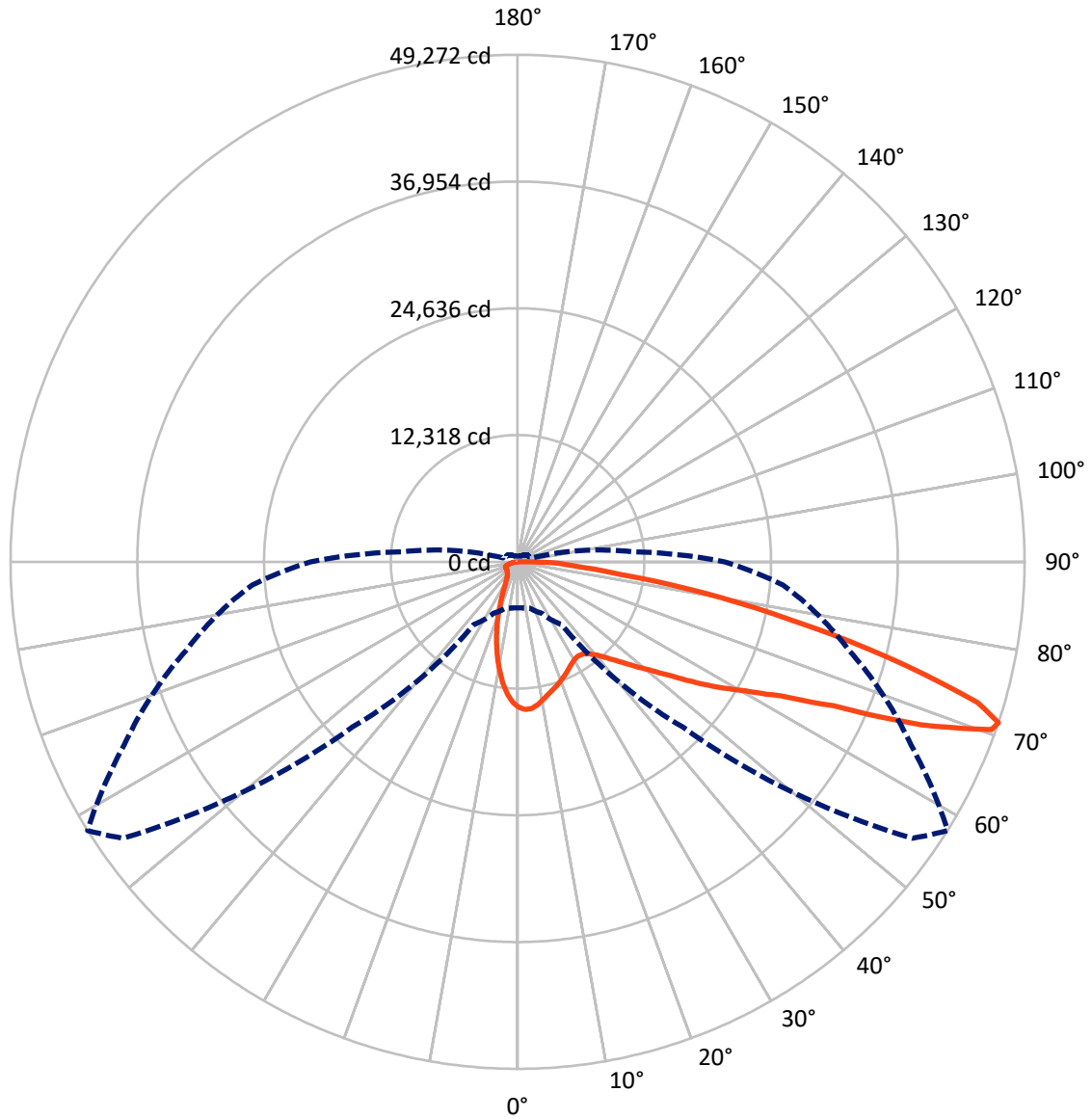
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.6 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	7624.4	0.0	7624.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	43372.6	0.0	43372.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	50997.0	0.0	50997.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1219.0	2.4
10°-20°	2710.5	5.3
20°-30°	3444.8	6.8
30°-40°	4387.9	8.6
40°-50°	6222.3	12.2
50°-60°	9629.3	18.9
60°-70°	13109.0	25.7
70°-80°	8745.2	17.1
80°-90°	1529.0	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°	50997.0	100.0
0°-180°	50997.0	100.0

Coefficient of Utilization

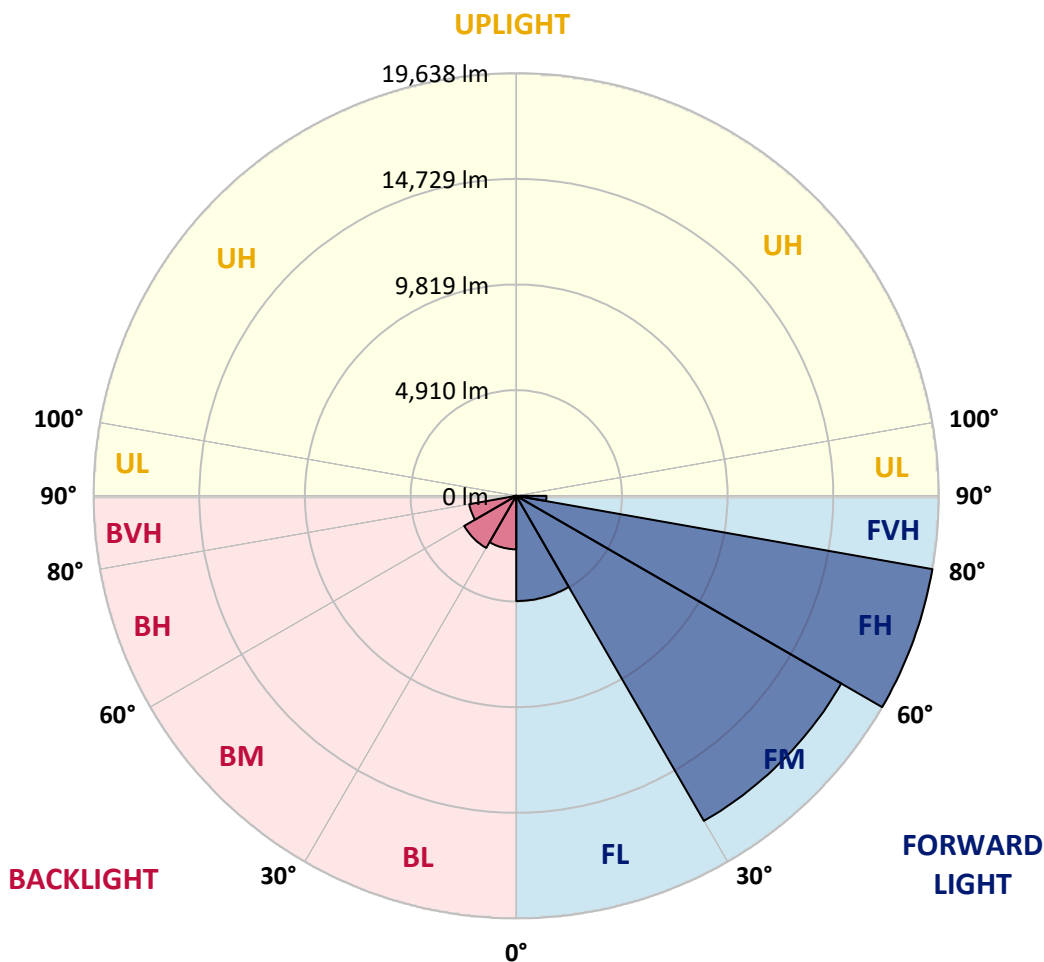


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4888.9	9.6			
FM (30°-60°)	17443.4	34.2			
FH (60°-80°)	19638.3	38.5			G5
FVH (80°-90°)	1401.9	2.7			G5
BL (0°-30°)	2485.3	4.9	B3/2500		
BM (30°-60°)	2796.1	5.5	B3/5000		
BH (60°-80°)	2216.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	127.0	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°	14129.6	14129.6	14129.6	14129.6	14129.6	14129.6	14129.6	14129.6	14129.6	14129.6	14129.6
2.5°	14504.4	14484.9	14492.0	14477.8	14444.0	14410.3	14360.5	14369.4	14300.1	14197.1	14069.2
5°	14230.8	14223.7	14277.0	14307.2	14332.1	14312.5	14298.3	14316.1	14214.8	14072.7	13850.7
7.5°	13657.1	13578.9	13646.4	13747.6	13843.6	13916.4	14012.3	14024.8	13960.8	13811.6	13520.3
10°	12841.7	12767.1	12866.5	13024.7	13216.5	13390.6	13584.2	13619.7	13632.2	13497.2	13143.7
12.5°	11996.1	11939.3	12038.7	12260.8	12578.8	12847.0	13156.1	13209.4	13319.5	13228.9	12795.5
15°	11239.4	11218.0	11338.8	11557.3	11923.3	12333.6	12779.5	12877.2	13063.7	13033.5	12523.7
17.5°	10585.6	10580.3	10672.7	10901.8	11306.9	11825.6	12404.7	12569.9	12847.0	12882.5	12299.9
20°	10098.9	10088.2	10152.2	10321.0	10738.4	11326.4	11999.7	12227.0	12626.7	12751.1	12068.9
22.5°	9837.8	9836.0	9837.8	9917.7	10258.8	10805.9	11605.3	11882.4	12411.8	12646.3	11813.1
25°	9793.4	9788.0	9748.9	9740.1	9933.7	10370.7	11214.5	11520.0	12207.5	12573.4	11569.8
27.5°	9908.8	9915.9	9864.4	9780.9	9820.0	10084.7	10875.2	11202.1	12044.1	12559.2	11401.0
30°	10148.6	10145.1	10100.7	10013.6	9937.2	9978.1	10633.6	10960.5	11933.9	12621.4	11285.5
32.5°	10413.3	10432.9	10424.0	10376.0	10262.3	10098.9	10560.8	10880.5	11902.0	12770.6	11235.8
35°	10731.3	10752.6	10816.6	10853.9	10720.6	10457.7	10717.1	10994.2	11994.3	13051.3	11315.7
37.5°	11033.3	11088.4	11267.8	11425.9	11312.2	11019.1	11132.8	11330.0	12280.3	13493.6	11530.7
40°	11381.5	11429.4	11722.5	12058.3	12040.5	11736.8	11802.5	11933.9	12784.8	14127.8	11919.7
42.5°	11724.3	11820.2	12244.8	12720.9	12857.7	12589.4	12694.2	12763.5	13495.4	14968.0	12598.3
45°	12180.9	12283.9	12873.7	13447.4	13767.2	13616.2	13783.2	13809.8	14388.9	16112.1	13584.2
47.5°	12871.9	12989.1	13676.6	14278.8	14767.3	14783.3	15058.6	15048.0	15504.5	17421.3	14825.9
50°	13948.4	14117.1	14680.3	15243.4	15836.7	16167.1	16534.8	16483.3	16842.2	18815.8	16255.9
52.5°	15358.9	15437.0	15854.5	16270.2	17007.4	17748.1	18275.7	18229.5	18359.2	20249.3	17879.6
55°	16820.8	16879.5	17051.8	17279.2	18270.4	19478.4	20593.9	20521.1	20192.5	21737.9	19483.7
57.5°	18135.4	18254.4	18373.4	18467.6	19542.3	21286.7	22965.4	22970.8	22182.1	23343.8	21141.1
60°	18339.7	18444.5	19231.4	19974.0	21718.4	23699.1	25503.9	25450.6	24240.9	25086.5	22988.5
62.5°	16211.5	16447.8	17762.3	19737.7	23814.6	28111.7	28742.3	28676.6	26703.0	27234.2	25139.8
65°	11617.7	11886.0	13472.3	16440.7	22798.5	32973.8	34586.7	33702.1	30060.4	29875.7	27658.7
67.5°	6702.4	6766.4	7453.8	9837.8	17359.1	33227.8	43502.5	42264.4	35274.2	32872.5	28891.6
70°	4956.2	4954.4	5117.8	6054.0	9393.7	27118.7	47742.8	48853.1	40763.3	33858.4	27148.9
71°	4481.9	4487.2	4670.2	5510.4	7439.6	22699.0	46842.2	49272.3	42209.3	33371.7	25887.6
72.5°	3833.5	3851.3	4105.3	4942.0	6258.3	15653.7	42962.5	46756.9	42895.0	32170.8	23914.1
75°	2908.0	2948.8	3300.6	4165.7	5720.0	7938.8	31531.3	37336.6	38105.8	28387.1	17769.4
77.5°	2074.8	2121.0	2519.0	3503.1	5437.6	5983.0	21116.2	27234.2	28042.4	18192.2	8015.2
80°	1311.0	1366.1	1666.3	2787.2	5109.0	5681.0	13269.8	18305.9	15291.4	5821.3	2039.3
82.5°	769.2	811.8	1033.9	1820.8	4172.8	5471.3	7807.3	10146.9	5951.0	1758.6	927.3
85°	445.9	465.4	644.8	1160.0	3030.6	5164.0	5736.0	5672.1	2582.9	859.8	438.8
87.5°	207.8	230.9	381.9	605.8	1682.3	3742.9	4533.4	3917.0	1605.9	403.2	206.1
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°	14129.6	14129.6	14129.6	14129.6	14129.6	14129.6	14129.6	14129.6	14129.6	14129.6	14129.6
2.5°	14007.0	13976.8	13850.7	13738.8	13621.5	13468.8	13300.0	13278.7	13175.6	13195.2	13159.7
5°	13729.9	13653.5	13349.7	13074.4	12749.3	12458.0	12141.8	11996.1	11786.5	11772.3	11719.0
7.5°	13333.7	13191.6	12720.9	12198.6	11676.4	11179.0	10686.9	10363.6	10033.2	9892.8	9880.4
10°	12887.9	12646.3	11953.5	11180.7	10427.5	9701.0	8997.5	8477.0	8008.1	7786.0	7777.1
12.5°	12465.1	12108.0	11157.6	10106.0	9075.7	8134.2	7169.6	6485.7	5897.7	5700.5	5617.0
15°	12106.2	11603.5	10383.1	9038.4	7787.8	6480.3	5382.5	4663.1	4119.5	3931.2	3895.7
17.5°	11758.1	11111.5	9589.1	7960.1	6448.4	5011.3	3911.7	3377.0	3087.4	3011.0	3009.2
20°	11411.7	10605.2	8759.5	6856.9	5153.4	3748.2	3007.5	2767.6	2669.9	2661.1	2646.9
22.5°	11019.1	10068.7	7887.3	5750.2	4021.8	2947.1	2556.3	2460.3	2447.9	2479.9	2479.9
25°	10651.4	9535.8	7002.6	4666.6	3128.3	2458.6	2282.7	2263.1	2296.9	2353.7	2359.1
27.5°	10308.5	9022.4	6139.3	3703.8	2506.5	2165.4	2092.6	2115.7	2176.1	2241.8	2243.6
30°	10026.1	8537.4	5300.8	2918.6	2117.5	1946.9	1934.5	1980.7	2046.4	2097.9	2110.4
32.5°	9807.6	8123.5	4490.8	2346.6	1863.5	1783.5	1794.2	1833.3	1874.1	1902.5	1922.1
35°	9706.3	7768.2	3742.9	1978.9	1701.8	1657.4	1671.6	1692.9	1710.7	1732.0	1748.0
37.5°	9724.1	7492.9	3075.0	1749.8	1593.4	1570.3	1570.3	1570.3	1570.3	1581.0	1582.8
40°	9889.3	7334.8	2531.4	1604.1	1520.6	1495.7	1476.2	1458.4	1444.2	1451.3	1447.8
42.5°	10312.1	7320.6	2133.5	1511.7	1462.0	1421.1	1382.0	1357.2	1339.4	1346.5	1350.1
45°	11029.7	7498.2	1865.2	1446.0	1406.9	1344.7	1295.0	1268.4	1255.9	1279.0	1282.6
47.5°	11958.8	7885.5	1701.8	1398.0	1355.4	1273.7	1220.4	1195.5	1199.1	1232.8	1241.7
50°	13156.1	8514.3	1623.6	1367.8	1319.9	1213.3	1158.2	1136.9	1147.6	1195.5	1206.2
52.5°	14470.6	9420.3	1632.5	1359.0	1296.8	1168.9	1110.3	1085.4	1103.2	1147.6	1156.4
55°	15987.7	10509.3	1780.0	1371.4	1263.0	1140.5	1071.2	1028.5	1042.8	1083.6	1090.7
57.5°	17673.5	11756.3	2076.6	1367.8	1220.4	1113.8	1030.3	966.4	977.0	1001.9	1009.0
60°	19428.6	13262.7	2536.7	1378.5	1200.9	1081.8	975.2	895.3	891.8	913.1	916.6
62.5°	21535.4	15005.3	3062.5	1385.6	1213.3	1041.0	902.4	824.3	813.6	818.9	822.5
65°	23706.2	16266.6	2865.4	1357.2	1252.4	1007.2	838.5	755.0	735.4	731.9	733.7
67.5°	23773.7	14914.8	2009.1	1300.3	1268.4	989.5	790.5	696.4	664.4	651.9	650.2
70°	21320.5	12116.9	1565.0	1239.9	1204.4	961.0	746.1	648.4	600.4	580.9	579.1
71°	20123.2	11154.1	1483.3	1209.7	1156.4	932.6	726.6	627.1	577.3	556.0	552.5
72.5°	18245.5	9999.4	1383.8	1161.8	1064.1	859.8	689.2	596.9	545.4	520.5	515.2
75°	13093.9	6539.0	1188.4	1035.6	881.1	685.7	604.0	536.5	492.1	461.9	458.3
77.5°	5045.0	2602.4	898.9	861.6	675.0	536.5	497.4	463.6	431.7	401.5	399.7
80°	1559.7	1163.5	655.5	648.4	488.5	399.7	387.3	378.4	365.9	334.0	326.9
82.5°	833.1	667.9	451.2	419.2	319.8	266.5	280.7	284.2	286.0	252.3	248.7
85°	397.9	353.5	254.0	238.0	186.5	149.2	172.3	186.5	188.3	154.5	143.9
87.5°	190.1	184.7	119.0	90.6	69.3	49.7	60.4	74.6	81.7	58.6	51.5
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)