

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: P383475

Luminaire Tested: **GLEON-SA7D-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383475
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-SA7D-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 51128 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

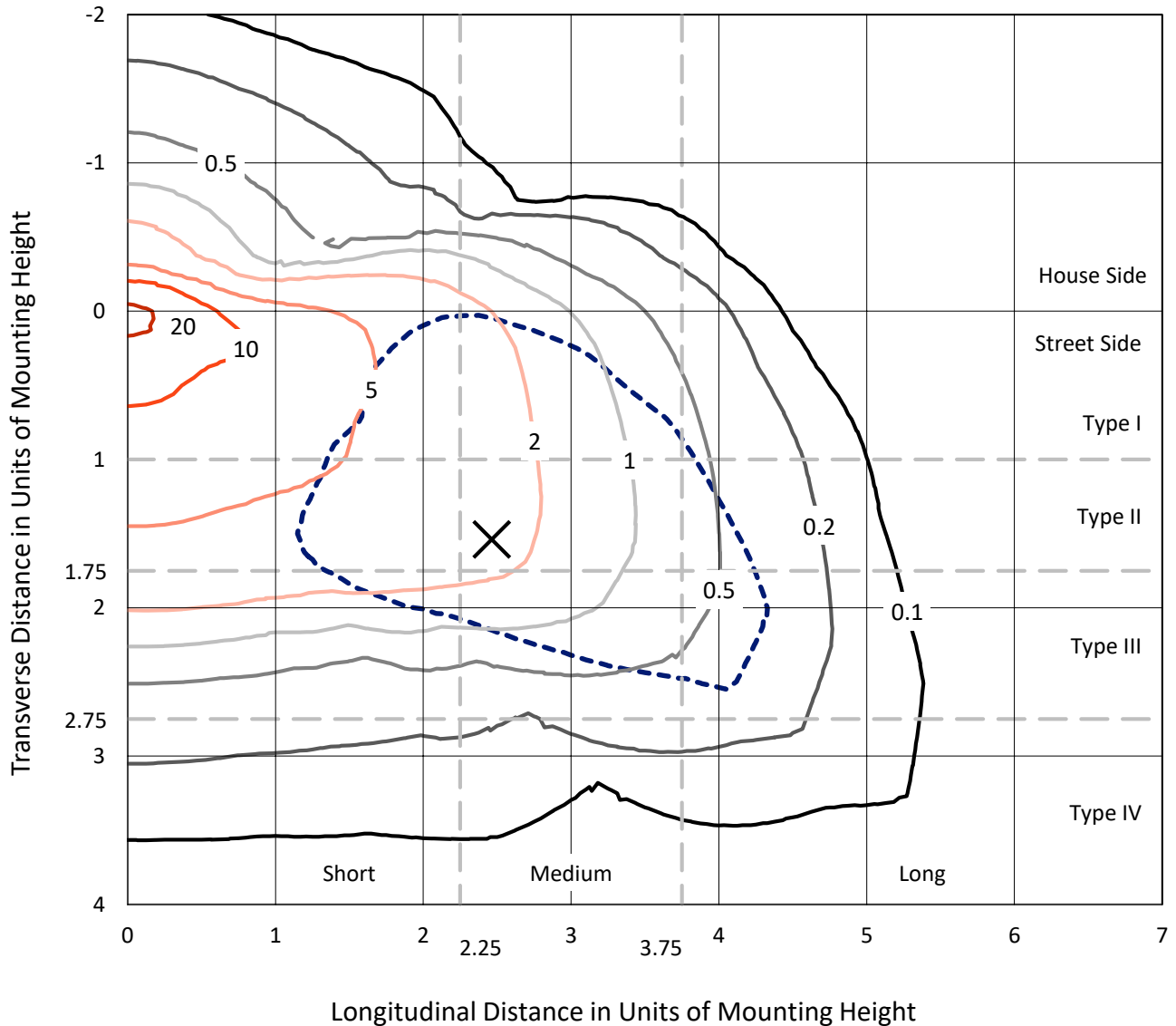
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

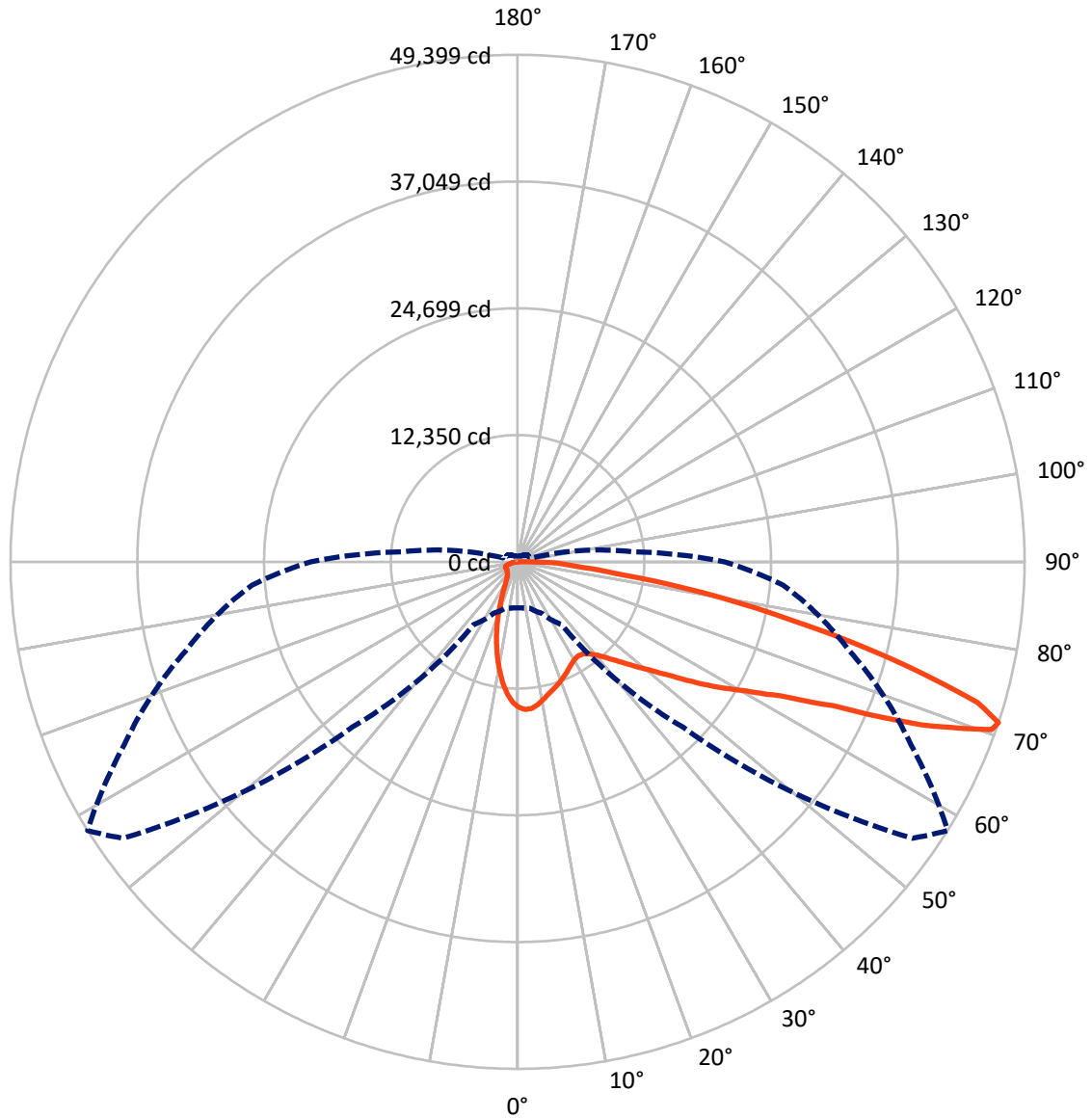
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.7 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	7644.0	0.0	7644.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	43484.0	0.0	43484.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	51128.0	0.0	51128.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1222.1	2.4
10°-20°	2717.5	5.3
20°-30°	3453.6	6.8
30°-40°	4399.2	8.6
40°-50°	6238.3	12.2
50°-60°	9654.0	18.9
60°-70°	13142.7	25.7
70°-80°	8767.7	17.1
80°-90°	1532.9	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°	51128.0	100.0
0°-180°	51128.0	100.0

Coefficient of Utilization

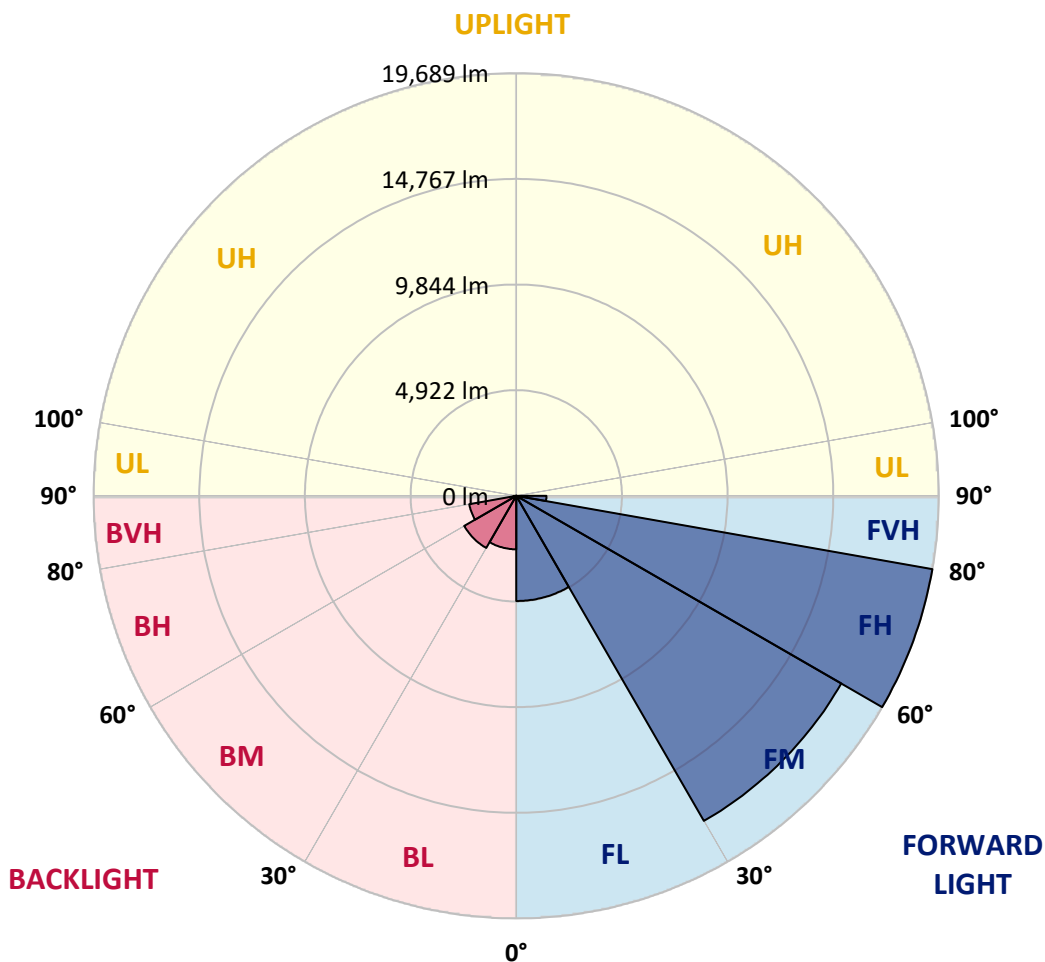


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4901.5	9.6			
FM (30°-60°)	17488.2	34.2			
FH (60°-80°)	19688.8	38.5			G5
FVH (80°-90°)	1405.5	2.7			G5
BL (0°-30°)	2491.7	4.9	B3/2500		
BM (30°-60°)	2803.3	5.5	B3/5000		
BH (60°-80°)	2221.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	127.4	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°	14165.9	14165.9	14165.9	14165.9	14165.9	14165.9	14165.9	14165.9	14165.9	14165.9	14165.9
2.5°	14541.6	14522.1	14529.2	14514.9	14481.1	14447.3	14397.4	14406.3	14336.9	14233.6	14105.3
5°	14267.4	14260.2	14313.7	14344.0	14368.9	14349.3	14335.0	14352.9	14251.4	14108.8	13886.3
7.5°	13692.2	13613.7	13681.5	13783.0	13879.1	13952.2	14048.3	14060.8	13996.7	13847.1	13555.0
10°	12874.6	12799.8	12899.6	13058.1	13250.4	13425.0	13619.1	13654.7	13667.2	13531.8	13177.4
12.5°	12026.9	11969.9	12069.7	12292.3	12611.1	12880.0	13189.9	13243.3	13353.7	13262.9	12828.3
15°	11268.2	11246.9	11368.0	11587.1	11953.9	12365.3	12812.3	12910.3	13097.3	13067.0	12555.9
17.5°	10612.8	10607.4	10700.1	10929.8	11335.9	11856.0	12436.5	12602.2	12880.0	12915.6	12331.5
20°	10124.8	10114.2	10178.3	10347.4	10766.0	11355.5	12030.5	12258.4	12659.2	12783.8	12100.0
22.5°	9863.0	9861.3	9863.0	9943.2	10285.1	10833.7	11635.1	11912.9	12443.7	12678.7	11843.5
25°	9818.5	9813.2	9774.0	9765.0	9959.2	10397.4	11243.3	11549.6	12238.9	12605.7	11599.4
27.5°	9934.3	9941.4	9889.8	9806.0	9845.2	10110.6	10903.1	11230.8	12075.0	12591.4	11430.3
30°	10174.7	10171.1	10126.6	10039.4	9962.8	10003.7	10660.9	10988.6	11964.6	12653.9	11314.6
32.5°	10440.0	10459.7	10450.8	10402.7	10288.7	10124.8	10587.9	10908.4	11932.6	12803.5	11264.6
35°	10758.9	10780.2	10844.3	10881.8	10748.2	10484.6	10744.7	11022.4	12025.2	13084.8	11344.9
37.5°	11061.7	11116.8	11296.7	11455.2	11341.2	11047.4	11161.3	11359.0	12311.9	13528.3	11560.3
40°	11410.7	11458.8	11752.7	12089.3	12071.5	11766.9	11832.8	11964.6	12817.6	14164.1	11950.4
42.5°	11754.5	11850.6	12276.2	12753.5	12890.7	12621.7	12726.8	12796.3	13530.1	15006.5	12630.7
45°	12212.1	12315.4	12906.7	13482.0	13802.6	13651.2	13818.6	13845.3	14425.9	16153.4	13619.1
47.5°	12904.9	13022.5	13711.7	14315.5	14805.3	14821.3	15097.3	15086.6	15544.4	17466.1	14864.1
50°	13984.2	14153.4	14718.0	15282.5	15877.4	16208.6	16577.4	16525.7	16885.4	18864.1	16297.7
52.5°	15398.3	15476.6	15895.2	16312.0	17051.0	17793.7	18322.7	18276.4	18406.4	20301.3	17925.5
55°	16864.1	16922.8	17095.6	17323.5	18317.3	19528.4	20646.8	20573.8	20244.3	21793.7	19533.7
57.5°	18181.9	18301.3	18420.6	18515.0	19592.5	21341.4	23024.4	23029.8	22239.0	23403.8	21195.4
60°	18386.8	18491.9	19280.8	20025.3	21774.2	23760.0	25569.5	25516.0	24303.1	25150.9	23047.6
62.5°	16253.2	16490.1	17807.9	19788.4	23875.8	28183.9	28816.1	28750.3	26771.7	27304.1	25204.3
65°	11647.6	11916.5	13506.9	16482.9	22857.0	33058.5	34675.6	33788.6	30137.6	29952.4	27729.8
67.5°	6719.6	6783.7	7473.0	9863.0	17403.6	33313.2	43614.3	42372.9	35364.8	32956.9	28965.7
70°	4968.9	4967.1	5131.0	6069.6	9417.8	27188.3	47865.4	48978.5	40868.0	33945.4	27218.6
71°	4493.4	4498.7	4682.1	5524.5	7458.7	22757.3	46962.5	49398.9	42317.7	33457.4	25954.1
72.5°	3843.4	3861.2	4115.9	4954.7	6274.3	15694.0	43072.9	46877.1	43005.2	32253.4	23975.5
75°	2915.5	2956.5	3309.0	4176.4	5734.7	7959.1	31612.3	37432.6	38203.7	28460.0	17815.1
77.5°	2080.1	2126.4	2525.4	3512.1	5451.6	5998.3	21170.4	27304.1	28114.5	18239.0	8035.7
80°	1314.3	1369.6	1670.5	2794.4	5122.1	5695.6	13303.9	18353.0	15330.7	5836.2	2044.6
82.5°	771.1	813.9	1036.5	1825.5	4183.5	5485.4	7827.4	10173.0	5966.3	1763.1	929.7
85°	447.0	466.6	646.5	1162.9	3038.3	5177.3	5750.7	5686.6	2589.5	862.0	439.9
87.5°	208.4	231.5	382.9	607.3	1686.6	3752.6	4545.0	3927.0	1610.0	404.3	206.6
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°	14165.9	14165.9	14165.9	14165.9	14165.9	14165.9	14165.9	14165.9	14165.9	14165.9	14165.9
2.5°	14043.0	14012.7	13886.3	13774.0	13656.5	13503.3	13334.2	13312.7	13209.5	13229.1	13193.4
5°	13765.1	13688.5	13384.0	13108.0	12782.0	12490.0	12173.0	12026.9	11816.8	11802.5	11749.1
7.5°	13368.0	13225.6	12753.5	12229.9	11706.4	11207.6	10714.4	10390.2	10058.9	9918.3	9905.8
10°	12920.9	12678.7	11984.2	11209.5	10454.3	9725.9	9020.6	8498.8	8028.6	7806.0	7797.1
12.5°	12497.1	12139.1	11186.3	10132.0	9099.0	8155.0	7188.0	6502.3	5912.8	5715.1	5631.5
15°	12137.3	11633.4	10409.8	9061.6	7807.8	6497.0	5396.4	4675.1	4130.1	3941.3	3905.7
17.5°	11788.3	11140.0	9613.7	7980.6	6464.9	5024.1	3921.7	3385.6	3095.3	3018.8	3017.0
20°	11441.0	10632.4	8782.0	6874.5	5166.6	3757.9	3015.2	2774.8	2676.8	2667.9	2653.6
22.5°	11047.4	10094.5	7907.5	5765.0	4032.1	2954.7	2562.8	2466.6	2454.2	2486.2	2486.2
25°	10678.7	9560.3	7020.6	4678.6	3136.3	2464.9	2288.5	2269.0	2302.8	2359.8	2365.1
27.5°	10335.0	9045.6	6155.0	3713.3	2512.9	2171.0	2098.0	2121.1	2181.7	2247.5	2249.4
30°	10051.9	8559.3	5314.4	2926.2	2122.9	1952.0	1939.5	1985.8	2051.6	2103.3	2115.8
32.5°	9832.8	8144.4	4502.3	2352.6	1868.2	1788.1	1798.8	1837.9	1878.9	1907.4	1927.0
35°	9731.2	7788.2	3752.6	1984.0	1706.1	1661.7	1675.9	1697.3	1715.1	1736.4	1752.5
37.5°	9749.0	7512.2	3082.9	1754.3	1597.5	1574.4	1574.4	1574.4	1574.4	1585.0	1586.9
40°	9914.6	7353.6	2537.9	1608.2	1524.5	1499.6	1479.9	1462.2	1447.9	1455.1	1451.5
42.5°	10338.6	7339.4	2138.9	1515.6	1465.7	1424.8	1385.6	1360.6	1342.8	1350.0	1353.5
45°	11058.0	7517.5	1870.0	1449.7	1410.5	1348.2	1298.3	1271.7	1259.2	1282.3	1285.9
47.5°	11989.5	7905.8	1706.1	1401.6	1358.8	1277.0	1223.5	1198.6	1202.2	1236.0	1244.9
50°	13189.9	8536.2	1627.8	1371.3	1323.3	1216.4	1161.2	1139.8	1150.6	1198.6	1209.2
52.5°	14507.8	9444.5	1636.7	1362.5	1300.1	1171.9	1113.1	1088.1	1106.0	1150.6	1159.4
55°	16028.8	10536.3	1784.6	1374.9	1266.3	1143.4	1073.9	1031.2	1045.5	1086.4	1093.5
57.5°	17718.9	11786.5	2081.9	1371.3	1223.5	1116.6	1033.0	968.8	979.5	1004.5	1011.6
60°	19478.5	13296.7	2543.2	1382.0	1203.9	1084.6	977.8	897.6	894.0	915.4	919.0
62.5°	21590.8	15043.9	3070.4	1389.1	1216.4	1043.6	904.7	826.4	815.7	821.1	824.6
65°	23767.1	16308.4	2872.7	1360.6	1255.6	1009.8	840.6	756.9	737.3	733.8	735.5
67.5°	23834.8	14953.0	2014.3	1303.7	1271.7	992.0	792.6	698.1	666.1	653.6	651.8
70°	21375.3	12148.0	1569.0	1243.2	1207.5	963.5	748.0	650.0	602.0	582.4	580.6
71°	20174.9	11182.8	1487.1	1212.9	1159.4	935.0	728.4	628.7	578.8	557.4	553.9
72.5°	18292.4	10025.1	1387.4	1164.7	1066.8	862.0	691.0	598.4	546.7	521.9	516.4
75°	13127.6	6555.8	1191.4	1038.3	883.4	687.5	605.5	537.9	493.3	463.1	459.5
77.5°	5057.9	2609.2	901.2	863.7	676.8	537.9	498.7	464.8	432.8	402.5	400.8
80°	1563.7	1166.6	657.2	650.0	489.8	400.8	388.3	379.3	366.8	334.8	327.7
82.5°	835.3	669.7	452.4	420.3	320.5	267.2	281.4	285.0	286.7	252.9	249.4
85°	399.0	354.5	254.7	238.7	187.0	149.6	172.7	187.0	188.8	154.9	144.3
87.5°	190.6	185.2	119.3	90.8	69.5	49.8	60.6	74.8	81.9	58.8	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)