

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: P383699

Luminaire Tested: **GLEON-SA9D-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383699
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-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 64623.3 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

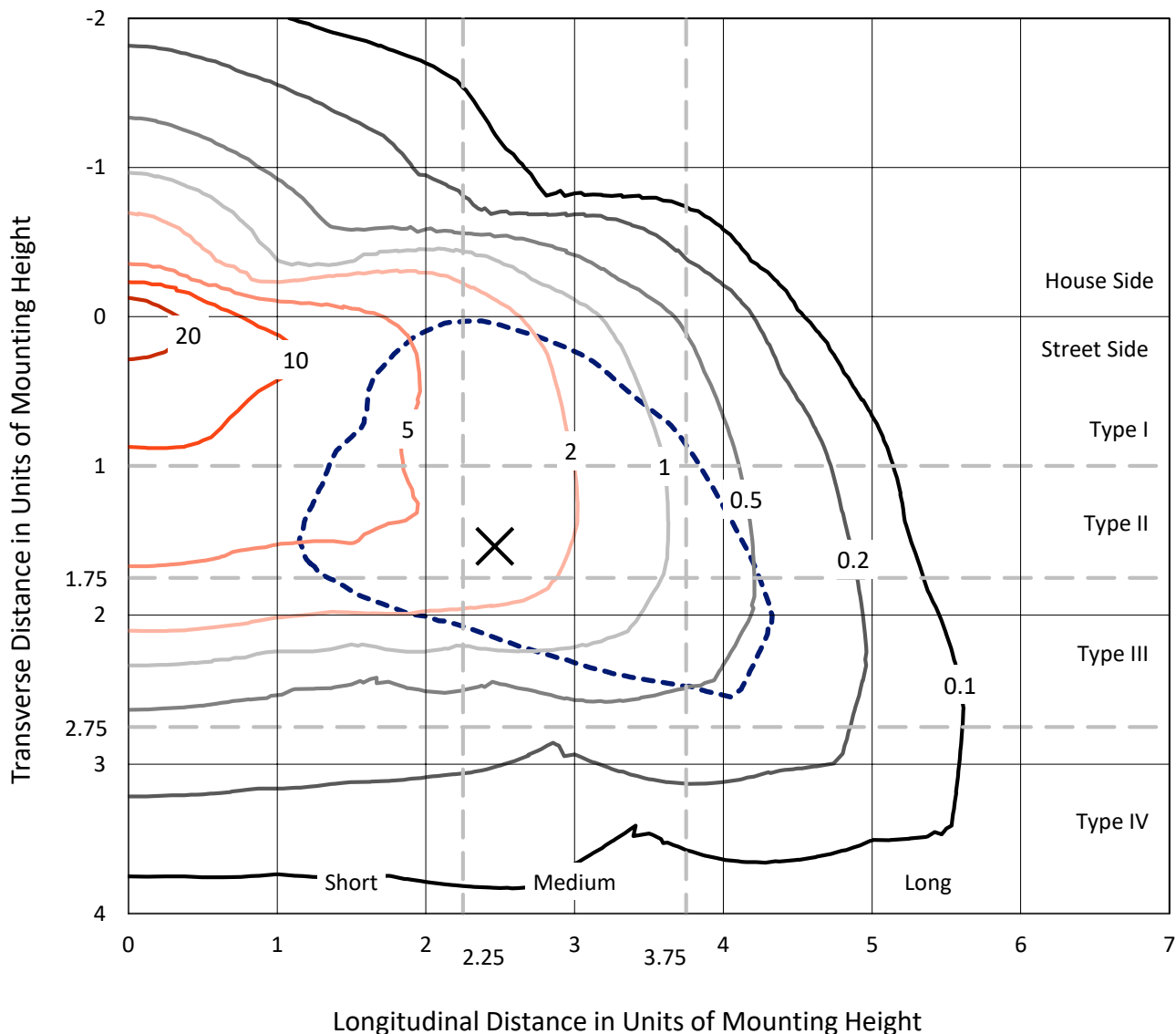
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

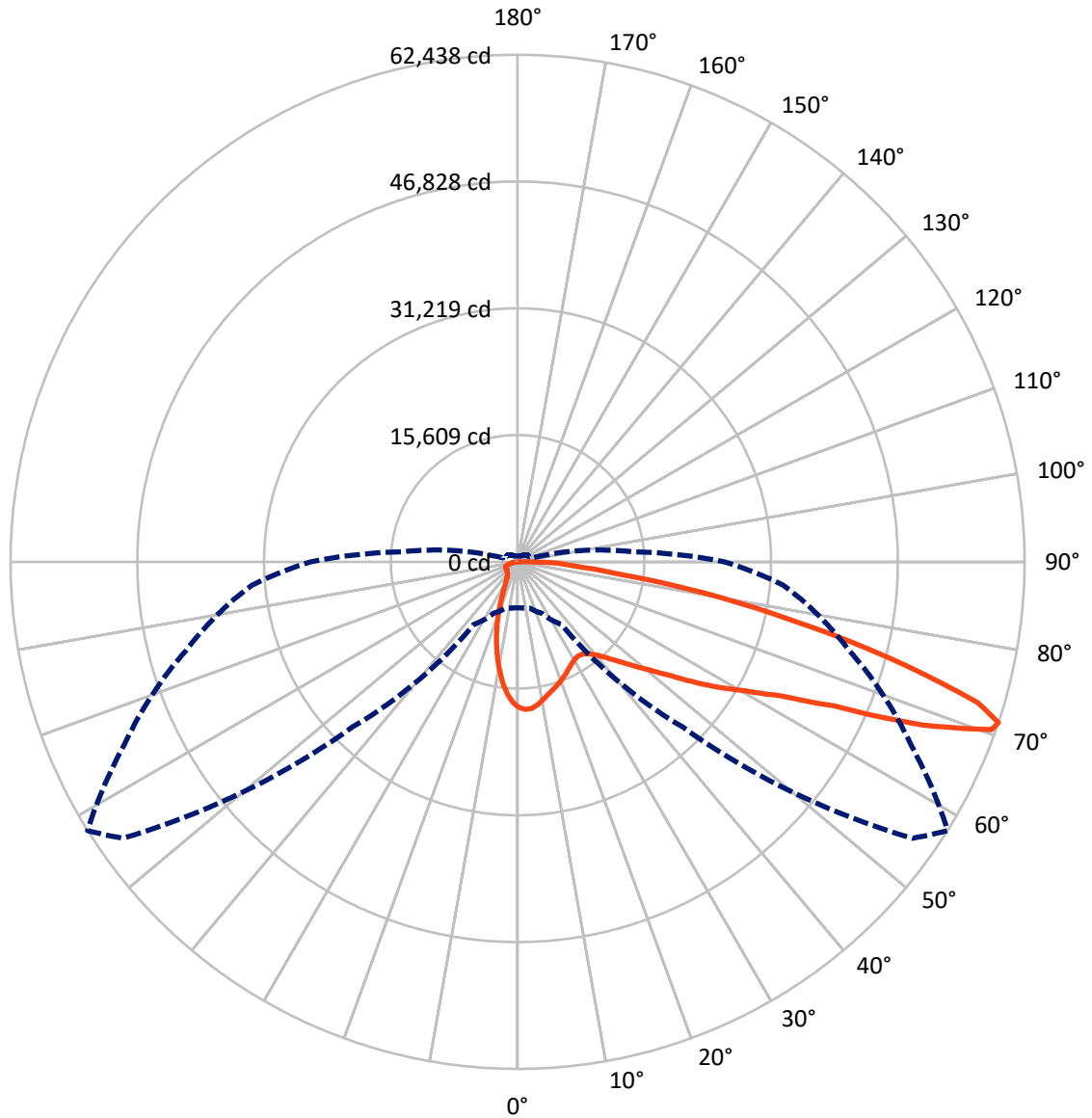
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.6 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	9661.6	0.0	9661.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	54961.7	0.0	54961.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	64623.3	0.0	64623.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1544.7	2.4
10°-20°	3434.7	5.3
20°-30°	4365.2	6.8
30°-40°	5560.4	8.6
40°-50°	7884.9	12.2
50°-60°	12202.2	18.9
60°-70°	16611.7	25.7
70°-80°	11082.0	17.1
80°-90°	1937.5	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°	64623.3	100.0
0°-180°	64623.3	100.0

Coefficient of Utilization

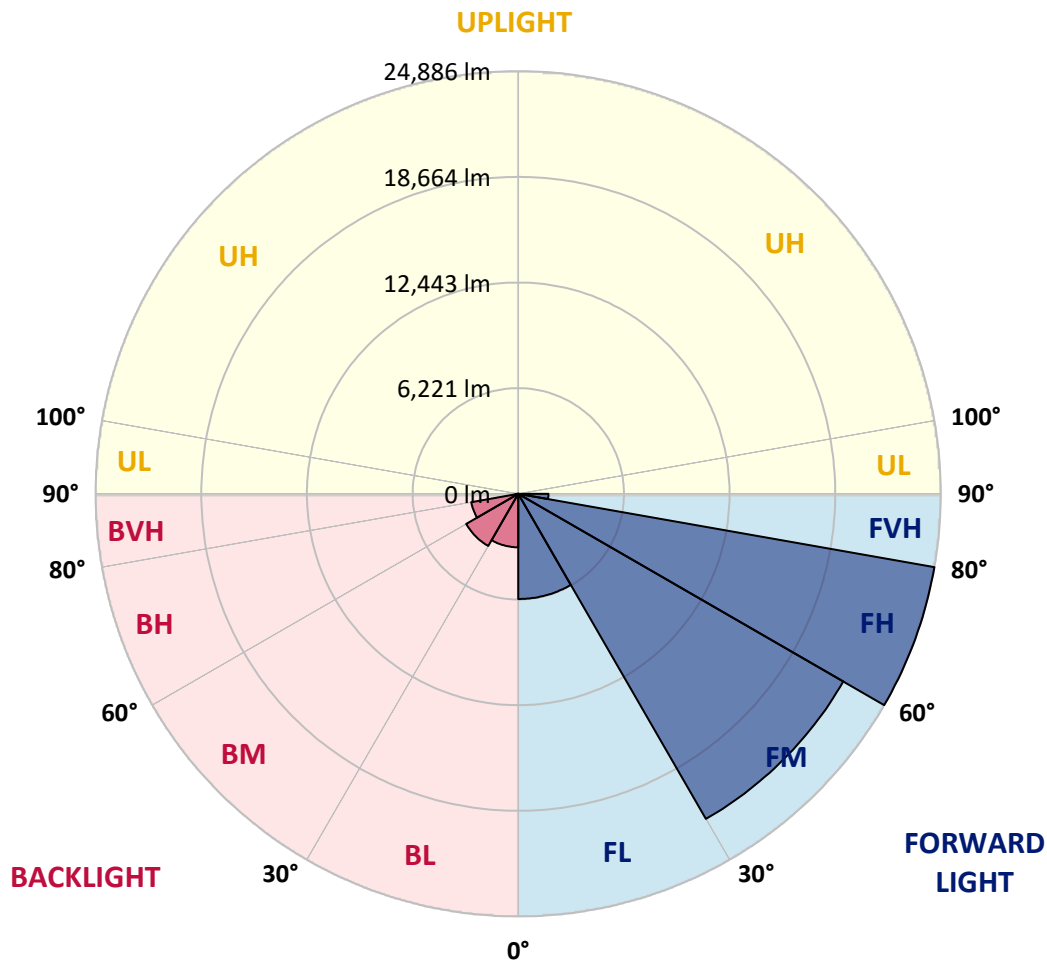


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6195.2	9.6			
FM (30°-60°)	22104.3	34.2			
FH (60°-80°)	24885.7	38.5			G5
FVH (80°-90°)	1776.5	2.7			G5
BL (0°-30°)	3149.4	4.9	B4/5000		
BM (30°-60°)	3543.2	5.5	B3/5000		
BH (60°-80°)	2808.1	4.3	B4/5000		G4/5000
BVH (80°-90°)	161.0	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	17905.0	17905.0	17905.0	17905.0	17905.0	17905.0	17905.0	17905.0	17905.0	17905.0	17905.0
2.5°	18380.0	18355.2	18364.2	18346.2	18303.4	18260.7	18197.6	18208.9	18121.1	17990.5	17828.4
5°	18033.3	18024.3	18091.8	18130.1	18161.6	18136.9	18118.8	18141.3	18013.1	17833.0	17551.6
7.5°	17306.2	17207.2	17292.7	17421.0	17542.5	17634.8	17756.4	17772.2	17691.1	17502.0	17132.8
10°	16272.9	16178.4	16304.5	16504.8	16747.9	16968.5	17213.9	17259.0	17274.7	17103.6	16655.6
12.5°	15201.5	15129.5	15255.5	15536.8	15939.8	16279.7	16671.4	16738.9	16878.5	16763.7	16214.4
15°	14242.5	14215.5	14368.6	14645.4	15109.1	15629.1	16194.2	16318.0	16554.3	16516.1	15870.0
17.5°	13414.1	13407.4	13524.4	13814.8	14328.0	14985.3	15719.2	15928.5	16279.7	16324.7	15586.4
20°	12797.3	12783.8	12864.9	13078.6	13607.7	14352.8	15205.9	15494.1	16000.5	16158.2	15293.8
22.5°	12466.4	12464.1	12466.4	12567.7	12999.9	13693.2	14706.2	15057.3	15728.2	16025.3	14969.6
25°	12410.2	12403.4	12353.8	12342.6	12588.0	13141.7	14210.9	14598.2	15469.4	15933.0	14661.2
27.5°	12556.4	12565.5	12500.2	12394.3	12443.9	12779.3	13781.0	14195.2	15262.2	15915.0	14447.4
30°	12860.3	12855.8	12799.6	12689.3	12592.5	12644.3	13474.8	13889.1	15122.7	15993.8	14301.0
32.5°	13195.7	13220.5	13209.3	13148.5	13004.4	12797.3	13382.6	13787.7	15082.1	16182.9	14238.0
35°	13598.7	13625.7	13706.7	13754.0	13585.2	13252.0	13580.7	13931.9	15199.2	16538.6	14339.3
37.5°	13981.4	14051.2	14278.5	14478.9	14334.7	13963.3	14107.5	14357.3	15561.6	17099.1	14611.7
40°	14422.6	14483.3	14854.8	15280.3	15257.7	14872.8	14956.1	15122.7	16200.9	17902.8	15104.7
42.5°	14857.1	14978.6	15516.6	16119.9	16293.2	15953.3	16086.2	16173.9	17101.4	18967.5	15964.6
45°	15435.6	15566.2	16313.4	17040.6	17445.7	17254.4	17466.1	17499.8	18233.6	20417.2	17213.9
47.5°	16311.2	16459.8	17331.0	18094.1	18713.1	18733.3	19082.3	19068.8	19647.3	22076.2	18787.4
50°	17675.4	17889.3	18602.8	19316.4	20068.2	20487.0	20952.9	20887.6	21342.3	23843.3	20599.5
52.5°	19462.7	19561.8	20090.8	20617.5	21551.7	22490.4	23158.9	23100.4	23264.7	25659.9	22657.0
55°	21315.3	21389.6	21608.0	21896.1	23152.2	24682.9	26096.7	26004.3	25587.8	27546.3	24689.7
57.5°	22981.1	23131.9	23282.8	23402.1	24764.0	26974.5	29101.8	29108.5	28109.1	29581.3	26789.9
60°	23240.0	23372.8	24370.0	25311.0	27521.5	30031.5	32318.6	32251.0	30718.1	31789.5	29131.1
62.5°	20543.2	20842.6	22508.4	25011.6	30177.8	35623.1	36422.2	36338.9	33838.0	34511.1	31857.1
65°	14722.0	15061.9	17072.1	20833.6	28890.2	41784.3	43828.3	42707.3	38092.6	37858.5	35049.1
67.5°	8493.3	8574.3	9445.4	12466.4	21997.4	42106.2	55126.4	53557.4	44699.4	41656.0	36611.3
70°	6280.5	6278.3	6485.3	7671.7	11903.6	34364.8	60499.6	61906.6	51655.2	42905.3	34403.1
71°	5679.5	5686.2	5918.0	6982.8	9427.4	28764.1	59358.4	62437.8	53487.6	42288.5	32804.8
72.5°	4857.8	4880.3	5202.2	6262.4	7930.5	19836.4	54442.1	59250.3	54356.5	40766.9	30303.9
75°	3685.0	3736.8	4182.5	5278.7	7248.5	10060.0	39956.4	47312.9	48287.6	35972.0	22517.4
77.5°	2629.2	2687.8	3192.0	4439.1	6890.5	7581.6	26758.4	34511.1	35535.4	23053.2	10156.8
80°	1661.3	1731.1	2111.5	3532.0	6474.1	7198.9	16815.5	23197.2	19377.2	7376.7	2584.2
82.5°	974.7	1028.7	1310.1	2307.4	5287.7	6933.3	9893.4	12858.1	7541.1	2228.5	1175.1
85°	565.0	589.8	817.2	1470.0	3840.3	6543.8	7268.7	7187.6	3273.1	1089.5	556.0
87.5°	263.3	292.6	483.9	767.6	2131.8	4743.0	5744.8	4963.6	2035.0	511.0	261.1
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°	17905.0	17905.0	17905.0	17905.0	17905.0	17905.0	17905.0	17905.0	17905.0	17905.0	17905.0
2.5°	17749.6	17711.4	17551.6	17409.8	17261.2	17067.6	16853.7	16826.7	16696.1	16720.9	16675.9
5°	17398.5	17301.7	16916.7	16567.9	16155.9	15786.8	15386.0	15201.5	14935.8	14917.8	14850.3
7.5°	16896.5	16716.4	16119.9	15458.1	14796.2	14166.0	13542.4	13132.7	12714.0	12536.2	12520.5
10°	16331.5	16025.3	15147.4	14168.2	13213.7	12293.1	11401.7	10742.0	10147.8	9866.4	9855.1
12.5°	15795.7	15343.2	14138.9	12806.4	11500.7	10307.7	9085.3	8218.7	7473.5	7223.7	7117.9
15°	15341.0	14703.9	13157.5	11453.4	9868.6	8211.9	6820.7	5909.1	5220.2	4981.6	4936.6
17.5°	14899.8	14080.4	12151.3	10087.0	8171.3	6350.3	4956.9	4279.3	3912.3	3815.5	3813.3
20°	14460.9	13438.9	11100.0	8689.1	6530.3	4749.8	3811.1	3507.2	3383.4	3372.1	3354.1
22.5°	13963.3	12759.0	9994.8	7286.7	5096.4	3734.5	3239.3	3117.7	3102.0	3142.5	3142.5
25°	13497.4	12083.8	8873.7	5913.6	3964.1	3115.5	2892.6	2867.9	2910.6	2982.6	2989.4
27.5°	13062.9	11433.2	7779.7	4693.5	3176.3	2744.1	2651.7	2681.0	2757.6	2840.8	2843.1
30°	12705.0	10818.6	6717.2	3698.5	2683.2	2467.2	2451.4	2510.0	2593.2	2658.5	2674.3
32.5°	12428.1	10294.2	5690.7	2973.7	2361.4	2260.0	2273.5	2323.1	2374.9	2410.9	2435.6
35°	12299.8	9843.9	4743.0	2507.7	2156.5	2100.3	2118.2	2145.3	2167.8	2194.8	2215.0
37.5°	12322.3	9495.0	3896.6	2217.3	2019.2	1990.0	1990.0	1990.0	1990.0	2003.5	2005.7
40°	12531.6	9294.6	3207.8	2032.7	1926.9	1895.4	1870.6	1848.1	1830.1	1839.2	1834.6
42.5°	13067.5	9276.6	2703.5	1915.6	1852.7	1800.9	1751.3	1719.8	1697.3	1706.3	1710.8
45°	13976.8	9501.8	2363.6	1832.4	1782.9	1704.1	1641.0	1607.3	1591.5	1620.8	1625.3
47.5°	15154.1	9992.5	2156.5	1771.6	1717.6	1614.0	1546.5	1515.0	1519.4	1562.2	1573.5
50°	16671.4	10789.4	2057.5	1733.3	1672.5	1537.5	1467.7	1440.6	1454.1	1515.0	1528.5
52.5°	18337.1	11937.4	2068.7	1722.1	1643.2	1481.2	1406.9	1375.4	1397.9	1454.1	1465.4
55°	20259.6	13317.3	2255.6	1737.8	1600.5	1445.2	1357.4	1303.3	1321.4	1373.2	1382.1
57.5°	22395.9	14897.6	2631.5	1733.3	1546.5	1411.4	1305.7	1224.6	1238.1	1269.6	1278.6
60°	24619.9	16806.4	3214.5	1746.8	1521.7	1370.9	1235.8	1134.5	1130.1	1157.1	1161.5
62.5°	27289.7	19014.7	3880.8	1755.9	1537.5	1319.2	1143.6	1044.5	1030.9	1037.7	1042.2
65°	30040.5	20613.0	3631.0	1719.8	1587.0	1276.3	1062.5	956.7	931.9	927.4	929.7
67.5°	30126.1	18900.0	2545.9	1647.8	1607.3	1253.9	1001.7	882.5	841.9	826.1	823.9
70°	27017.3	15354.5	1983.2	1571.2	1526.2	1217.8	945.4	821.6	760.9	736.1	733.9
71°	25500.1	14134.5	1879.7	1533.0	1465.4	1181.9	920.6	794.6	731.6	704.6	700.1
72.5°	23120.7	12671.3	1753.5	1472.2	1348.4	1089.5	873.4	756.3	691.1	659.5	652.8
75°	16592.6	8286.2	1505.9	1312.4	1116.6	868.9	765.4	679.8	623.6	585.3	580.8
77.5°	6393.0	3297.8	1139.0	1091.8	855.4	679.8	630.3	587.5	547.0	508.7	506.5
80°	1976.5	1474.5	830.7	821.6	619.0	506.5	490.7	479.5	463.7	423.2	414.2
82.5°	1055.7	846.4	571.8	531.3	405.2	337.7	355.7	360.1	362.5	319.6	315.1
85°	504.2	448.0	321.9	301.6	236.3	189.1	218.4	236.3	238.6	195.8	182.3
87.5°	240.9	234.1	150.8	114.8	87.8	63.1	76.6	94.6	103.6	74.2	65.3
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)