

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: P191186

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-SL3-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 53537.1 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B4 - U0 - G5

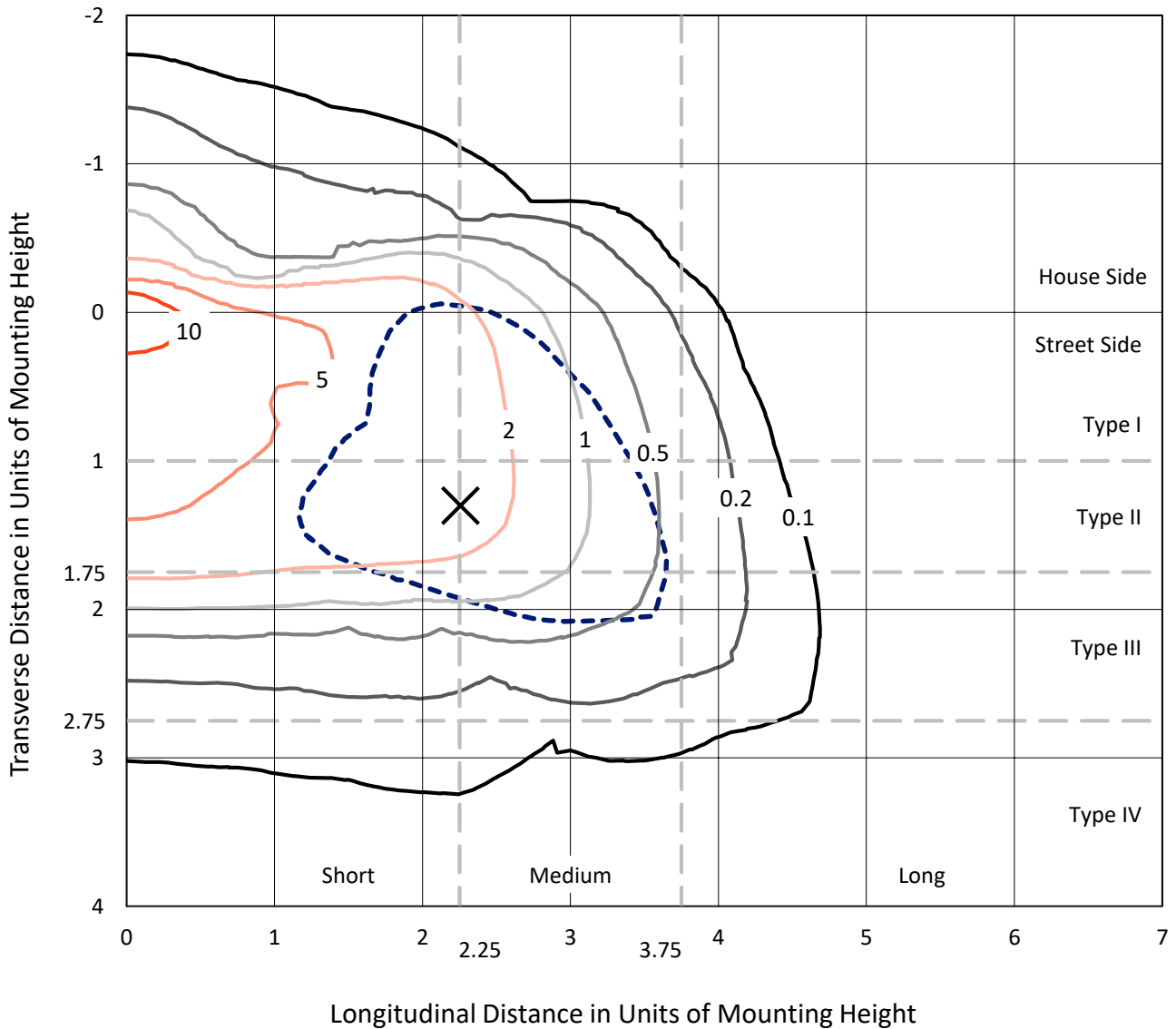
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

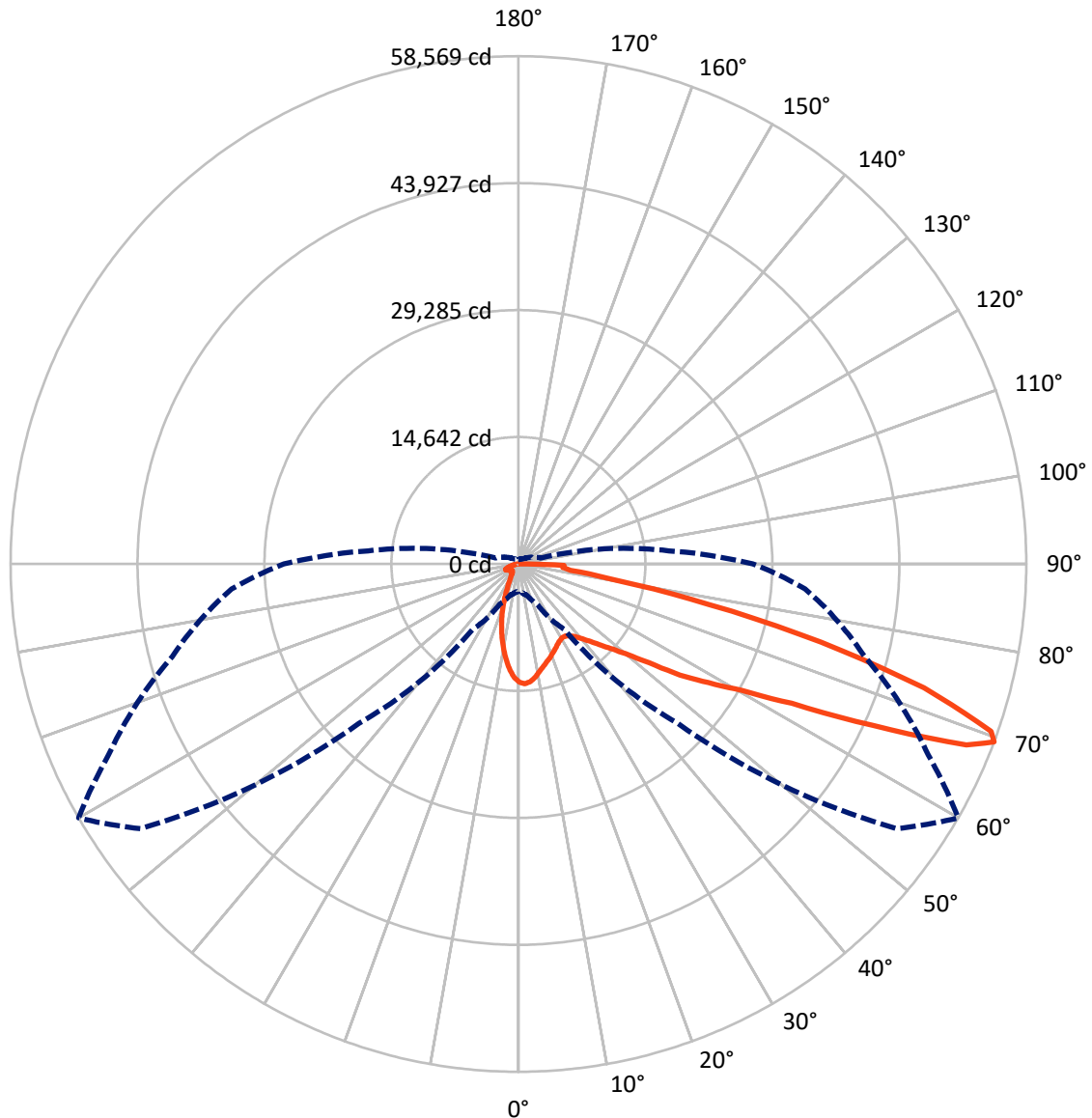
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7616.6	0.0	7616.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	45920.5	0.0	45920.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	53537.1	0.0	53537.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1153.5	2.2
10°-20°	2457.6	4.6
20°-30°	3131.4	5.8
30°-40°	4304.9	8.0
40°-50°	6985.1	13.0
50°-60°	11202.3	20.9
60°-70°	14909.4	27.8
70°-80°	8049.9	15.0
80°-90°	1343.2	2.5
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°	53537.1	100.0
0°-180°	53537.1	100.0



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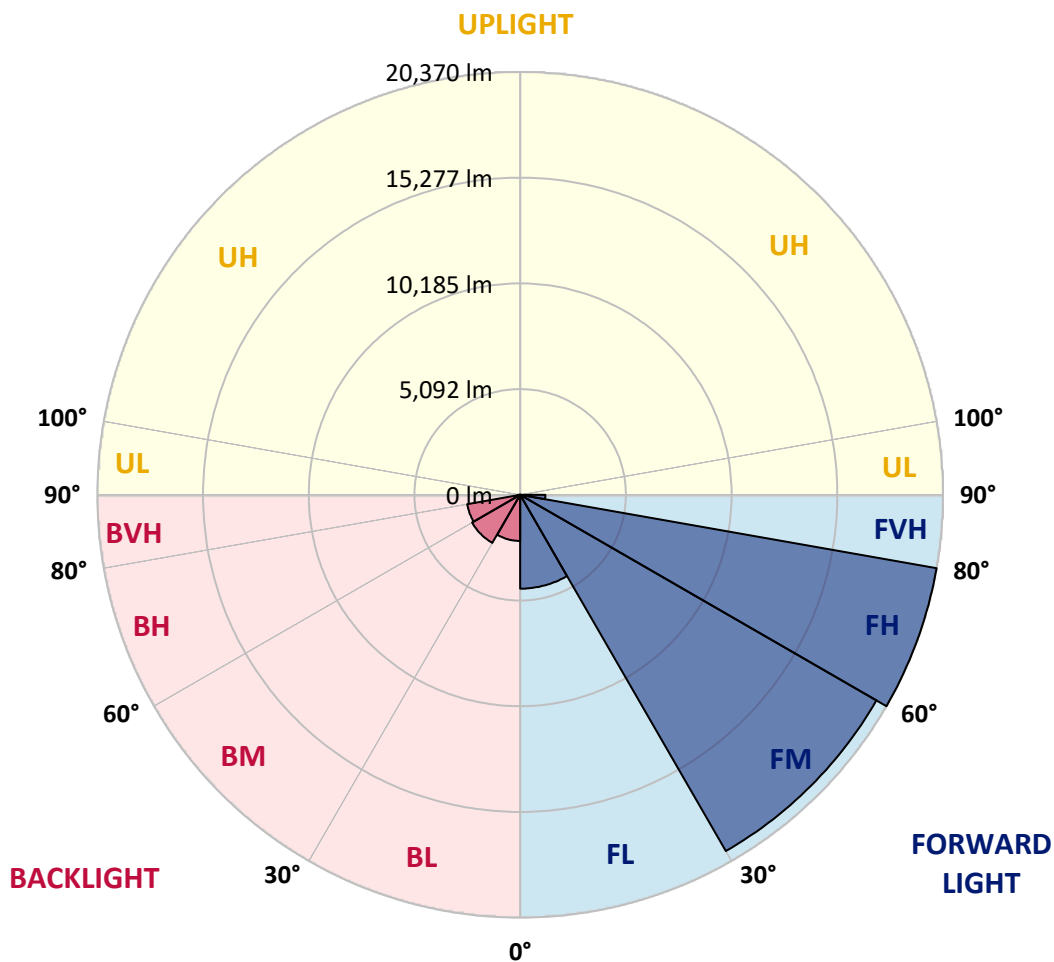
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4520.5	8.4			
FM	(30°-60°)	19816.3	37.0			
FH	(60°-80°)	20369.9	38.0			G5
FVH	(80°-90°)	1213.8	2.3			G5
BL	(0°-30°)	2222.0	4.2	B3/2500		
BM	(30°-60°)	2675.9	5.0	B3/5000		
BH	(60°-80°)	2589.4	4.8	B4/5000		G4/5000
BVH	(80°-90°)	129.3	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°	60°	65°	75°	85°
0°	13642.1	13642.1	13642.1	13642.1	13642.1	13642.1	13642.1	13642.1	13642.1	13642.1	13642.1
2.5°	13921.3	13952.4	13939.4	13931.8	13955.0	13918.8	13843.8	13820.6	13784.4	13698.9	13554.2
5°	13399.0	13492.1	13486.9	13556.8	13673.1	13704.2	13670.5	13675.7	13608.4	13502.4	13261.9
7.5°	12496.4	12535.2	12555.9	12708.4	12920.6	13091.2	13236.1	13282.6	13251.6	13161.1	12850.7
10°	11565.4	11596.4	11645.6	11824.0	12092.9	12328.3	12602.4	12760.2	12827.4	12811.9	12465.4
12.5°	10766.3	10797.2	10861.9	11063.6	11384.3	11674.0	12072.3	12268.9	12429.2	12524.8	12152.5
15°	10049.9	10117.1	10179.2	10411.9	10771.5	11151.6	11601.6	11849.9	12098.1	12312.7	11875.7
17.5°	9491.2	9558.6	9594.7	9806.8	10189.5	10655.1	11182.6	11474.8	11785.2	12136.9	11601.6
20°	9168.0	9199.0	9183.5	9302.5	9646.4	10140.4	10766.3	11105.1	11480.1	11971.4	11327.4
22.5°	9077.5	9080.0	9023.1	9010.3	9232.6	9649.0	10321.5	10732.6	11192.9	11862.8	11092.1
25°	9297.3	9289.5	9134.3	9007.7	9030.9	9274.1	9892.1	10370.6	10952.4	11839.5	10911.1
27.5°	9786.1	9809.4	9579.2	9341.3	9105.9	9098.1	9566.2	10070.5	10755.9	11945.5	10833.5
30°	10471.4	10510.2	10264.5	9961.9	9519.7	9155.1	9439.6	9892.1	10634.4	12165.3	10820.6
32.5°	11221.5	11262.8	11076.6	10758.5	10179.2	9506.8	9527.5	9907.7	10629.2	12473.1	10908.4
35°	12020.6	12067.1	11971.4	11702.5	11058.5	10156.0	9863.7	10158.5	10797.2	12943.8	11143.8
37.5°	12912.8	12985.2	13011.0	12755.1	12067.1	11012.0	10414.6	10634.4	11177.5	13598.1	11575.7
40°	14198.1	14299.0	14291.2	13924.0	13223.1	12168.0	11265.3	11322.3	11769.7	14472.2	12266.2
42.5°	16660.2	16680.8	16036.9	15237.8	14495.5	13383.5	12268.9	12222.3	12586.9	15579.1	13282.6
45°	19792.1	19706.6	18273.9	16730.0	15824.8	14780.0	13574.9	13347.3	13624.0	16929.1	14555.0
47.5°	22391.1	22194.6	20384.2	18253.2	17231.7	16298.1	15108.5	14710.1	14862.8	18460.2	16199.9
50°	23293.7	23146.3	21646.3	19520.5	18563.6	18149.8	16996.3	16432.6	16473.9	20285.9	18126.5
52.5°	23099.8	23079.0	22078.1	20355.8	19810.2	20094.5	19670.4	18907.5	18504.1	22313.5	20205.8
55°	22642.0	22686.0	22323.9	21328.2	21235.1	21972.2	23164.4	22600.6	21346.3	24359.2	22355.0
57.5°	21051.5	21165.3	21961.8	22551.5	23529.0	24625.6	25978.1	25817.8	24405.8	26570.3	24910.1
60°	16960.1	17223.9	19360.2	22313.5	25890.2	29319.5	29924.7	29552.2	27560.9	29314.3	28285.0
62.5°	11883.5	12157.6	14697.2	19318.7	25502.3	34621.2	36979.8	35373.7	32091.9	33356.5	32653.1
65°	6362.0	6493.9	8433.5	13404.1	21529.9	35715.1	47290.8	44846.9	39265.9	38340.1	36390.0
67.5°	3509.4	3581.9	4324.1	6768.0	13789.5	31450.5	53859.7	55706.2	48232.2	41658.1	35709.9
69°	3173.2	3240.5	3726.7	5125.8	9227.5	26004.0	53218.3	58569.2	52163.1	41329.7	33196.2
70°	3103.4	3165.5	3602.5	4724.9	7468.9	21434.2	51069.2	57837.2	53099.3	40153.0	31003.1
72.5°	2793.1	2860.3	3284.5	4243.9	6382.7	10686.1	40453.0	48902.0	48208.9	34815.1	23516.1
75°	2604.3	2666.3	3385.4	4155.9	6111.1	6762.8	26668.6	36040.9	35438.4	24354.0	12680.0
77.5°	1114.6	1109.5	1569.8	3517.2	6201.6	6548.2	14330.0	22515.2	20542.0	10409.3	3641.3
80°	744.8	731.9	744.8	1034.5	5687.0	6584.4	7507.6	11428.3	8632.7	2653.4	1794.8
82.5°	641.4	631.1	654.3	631.1	1999.2	7515.4	6382.7	6077.6	4104.3	1507.7	889.7
85°	431.9	413.8	563.7	566.4	944.0	6677.5	7189.6	5133.6	3320.6	894.8	439.7
87.5°	206.9	201.7	328.5	400.9	553.4	2712.9	8066.3	5260.3	3349.1	457.8	209.5
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°	13642.1	13642.1	13642.1	13642.1	13642.1	13642.1	13642.1	13642.1	13642.1	13642.1	13642.1
2.5°	13510.2	13404.1	13300.7	13176.5	13047.2	12902.5	12830.1	12757.6	12739.5	12718.9	12646.4
5°	13137.8	12987.8	12729.2	12444.7	12144.7	11852.4	11630.0	11490.4	11384.3	11330.0	11234.4
7.5°	12656.8	12436.9	11984.4	11493.0	10988.6	10528.3	10130.1	9879.1	9641.3	9530.0	9403.4
10°	12199.0	11870.5	11167.1	10443.0	9718.9	9023.1	8368.9	7906.0	7494.8	7264.6	7101.6
12.5°	11805.9	11355.9	10380.9	9400.7	8407.6	7417.1	6437.0	5666.3	5022.4	4683.6	4510.3
15°	11423.2	10880.0	9633.5	8389.5	7114.5	5767.2	4479.3	3605.1	3072.3	2860.3	2787.8
17.5°	11076.6	10380.9	8883.5	7370.6	5780.1	4150.8	3010.3	2529.2	2325.0	2255.1	2231.9
20°	10701.6	9876.6	8105.0	6305.1	4388.8	2901.7	2350.8	2138.8	2056.0	2035.4	2024.9
22.5°	10339.6	9380.0	7360.2	5164.6	3152.5	2239.6	2019.8	1931.8	1919.0	1937.1	1937.1
25°	10031.8	8935.3	6556.0	3972.3	2314.6	1885.3	1807.8	1787.1	1836.2	1903.4	1916.4
27.5°	9801.6	8570.6	5699.9	2932.7	1844.0	1639.6	1637.0	1670.7	1792.2	1921.5	1947.4
30°	9643.9	8224.0	4784.4	2115.5	1546.5	1443.1	1484.5	1556.8	1735.3	1919.0	1968.1
32.5°	9563.7	7968.0	3830.1	1637.0	1324.1	1267.2	1337.1	1425.0	1600.8	1771.5	1836.2
35°	9625.8	7779.2	2930.1	1365.5	1168.9	1124.9	1197.4	1282.8	1386.2	1458.6	1507.7
37.5°	9858.5	7704.3	2211.2	1223.2	1062.9	1021.5	1078.4	1127.6	1168.9	1189.7	1212.9
40°	10360.2	7784.3	1771.5	1150.8	1003.4	951.8	975.0	993.1	1019.0	1039.6	1050.0
42.5°	11099.8	8024.9	1587.9	1122.4	972.4	897.4	892.2	900.0	933.6	972.4	980.2
45°	12134.3	8449.1	1574.9	1140.5	956.9	853.4	830.1	840.5	892.2	951.8	962.1
47.5°	13455.9	9095.6	1678.5	1194.8	969.9	830.1	791.4	804.3	869.0	949.1	962.1
50°	15056.7	9998.1	1851.7	1275.0	1026.7	835.3	778.5	786.2	853.4	941.3	954.3
52.5°	16947.2	11278.3	2040.5	1352.5	1086.2	869.0	788.8	770.7	832.8	910.3	925.9
55°	19049.8	12920.6	2234.4	1422.4	1117.3	910.3	809.5	750.0	793.9	858.6	871.6
57.5°	21630.8	15217.1	2570.7	1489.6	1137.9	938.8	830.1	729.3	744.8	791.4	801.7
60°	25124.7	18465.3	3162.9	1600.8	1184.5	949.1	827.6	711.2	695.7	721.6	726.7
62.5°	29311.7	21992.8	3656.8	1740.4	1262.0	956.9	812.0	698.3	654.3	654.3	659.5
65°	31797.0	22936.8	3382.7	1856.9	1326.7	949.1	793.9	685.4	623.3	594.8	597.4
67.5°	29689.3	20172.2	2899.1	1880.2	1324.1	912.9	765.5	662.1	592.2	548.3	545.6
69°	27048.9	17405.0	2681.9	1818.1	1262.0	866.3	729.3	636.2	569.0	522.4	519.9
70°	24920.4	15716.2	2539.6	1750.9	1194.8	832.8	700.8	613.0	550.9	506.9	501.8
72.5°	18118.7	10298.1	2169.8	1505.2	985.3	698.3	605.2	538.0	491.3	465.5	460.3
75°	9054.2	4911.2	1761.2	1220.7	755.1	558.6	496.5	450.0	426.7	421.6	419.0
77.5°	2974.1	2250.0	1259.5	910.3	561.2	437.1	400.9	367.2	362.0	377.6	372.5
80°	1634.5	1308.6	799.1	602.6	382.8	320.7	315.5	297.4	305.1	331.0	325.8
82.5°	832.8	680.2	494.0	362.0	258.6	230.2	250.8	240.5	250.8	274.2	271.6
85°	411.2	372.5	312.9	219.8	170.7	147.4	178.4	186.2	191.4	209.5	209.5
87.5°	237.9	219.8	165.5	103.4	85.3	77.5	103.4	100.9	119.0	129.3	126.7
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)