

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: P191178

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191178
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-10-LED-E1-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1050mA 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: 60273.3 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B4 - U0 - G5

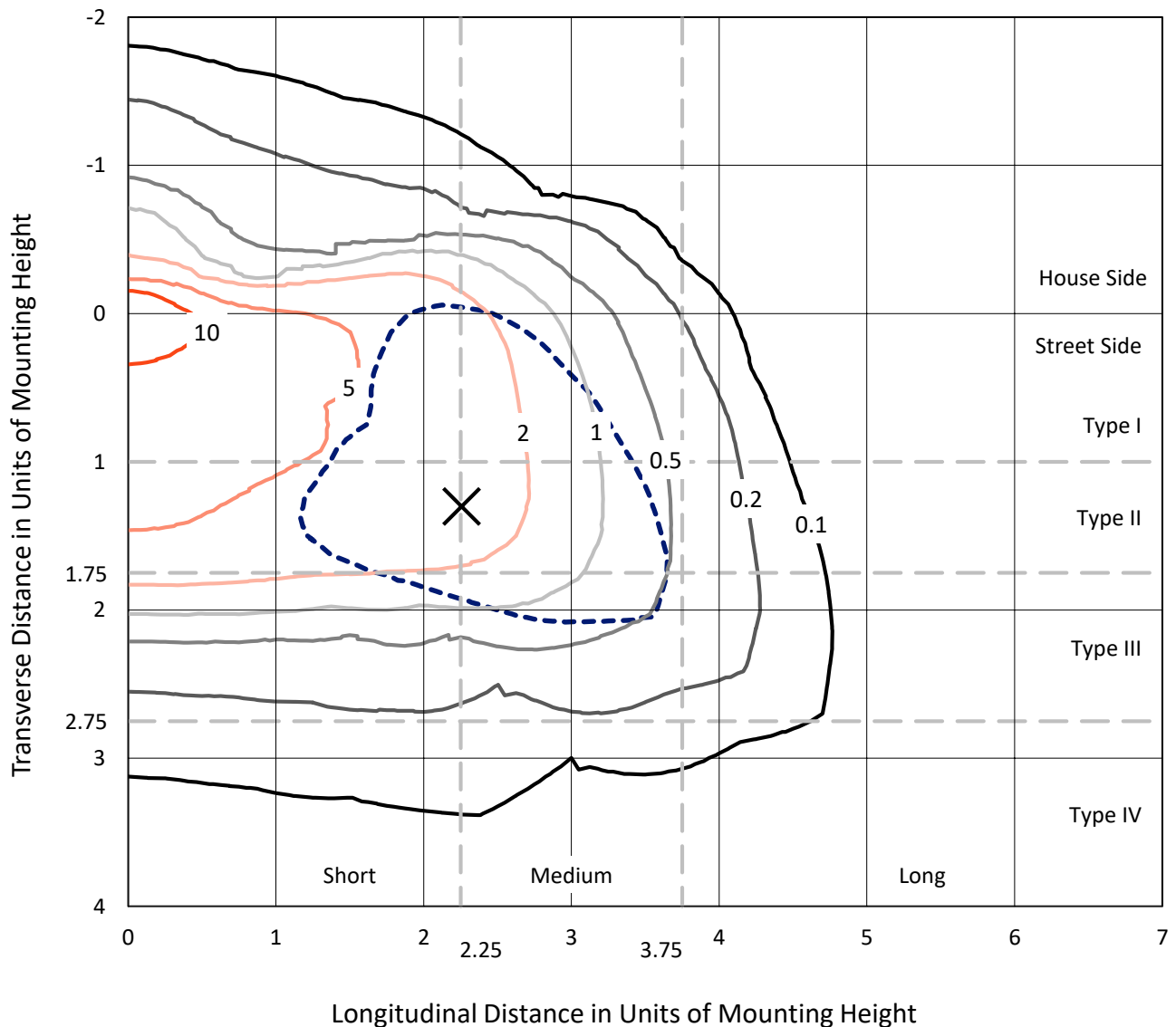
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191178
 CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3

Iso-Footcandle Lines of Horizontal Illumination

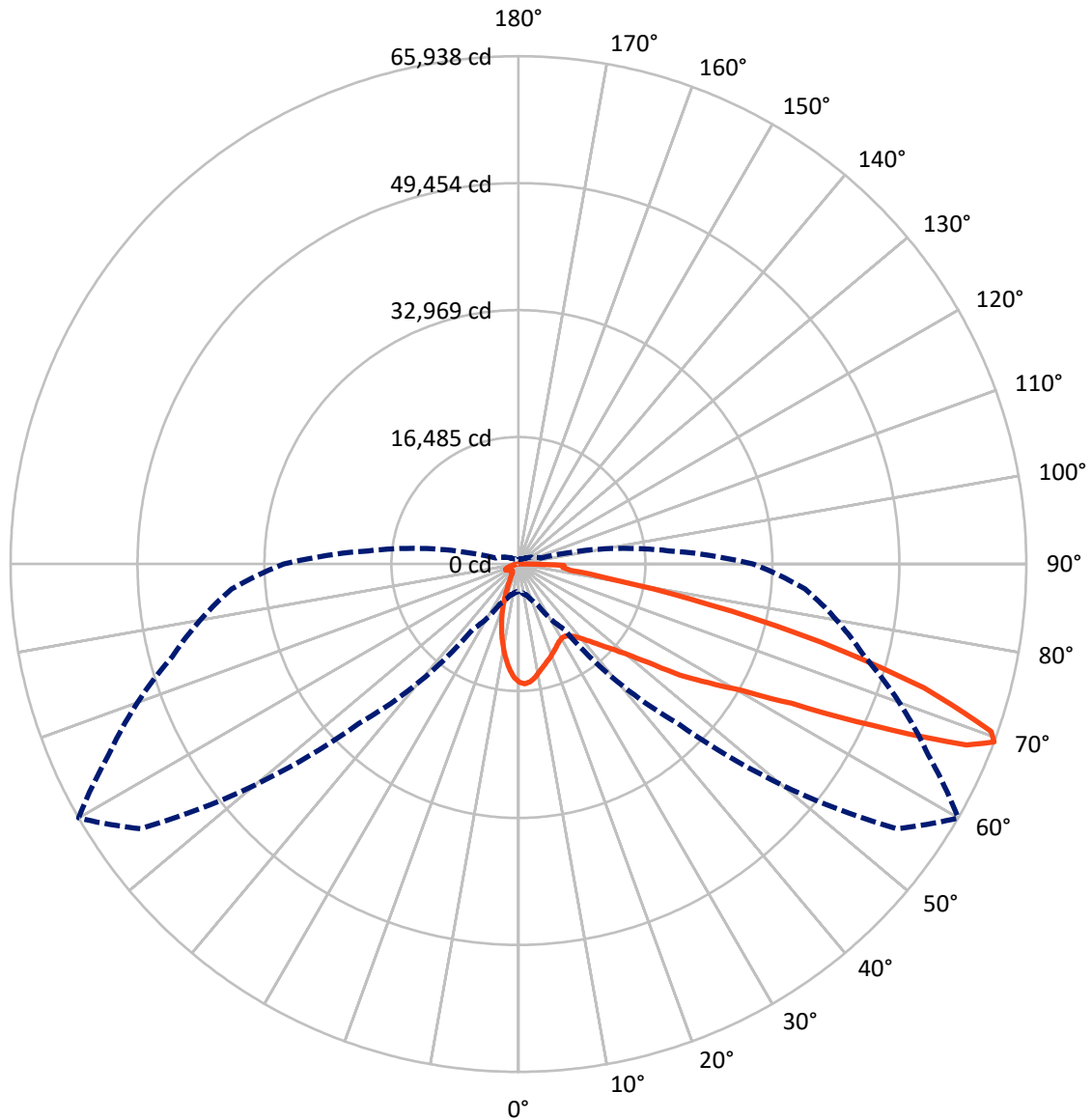
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.1 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P191178
CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191178

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8575.0	0.0	8575.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	51698.3	0.0	51698.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	60273.3	0.0	60273.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1298.6	2.2
10°-20°	2766.8	4.6
20°-30°	3525.4	5.8
30°-40°	4846.5	8.0
40°-50°	7863.9	13.0
50°-60°	12611.8	20.9
60°-70°	16785.3	27.8
70°-80°	9062.8	15.0
80°-90°	1512.2	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°	60273.3	100.0
0°-180°	60273.3	100.0

Coefficient of Utilization



REPORT NUMBER: P191178

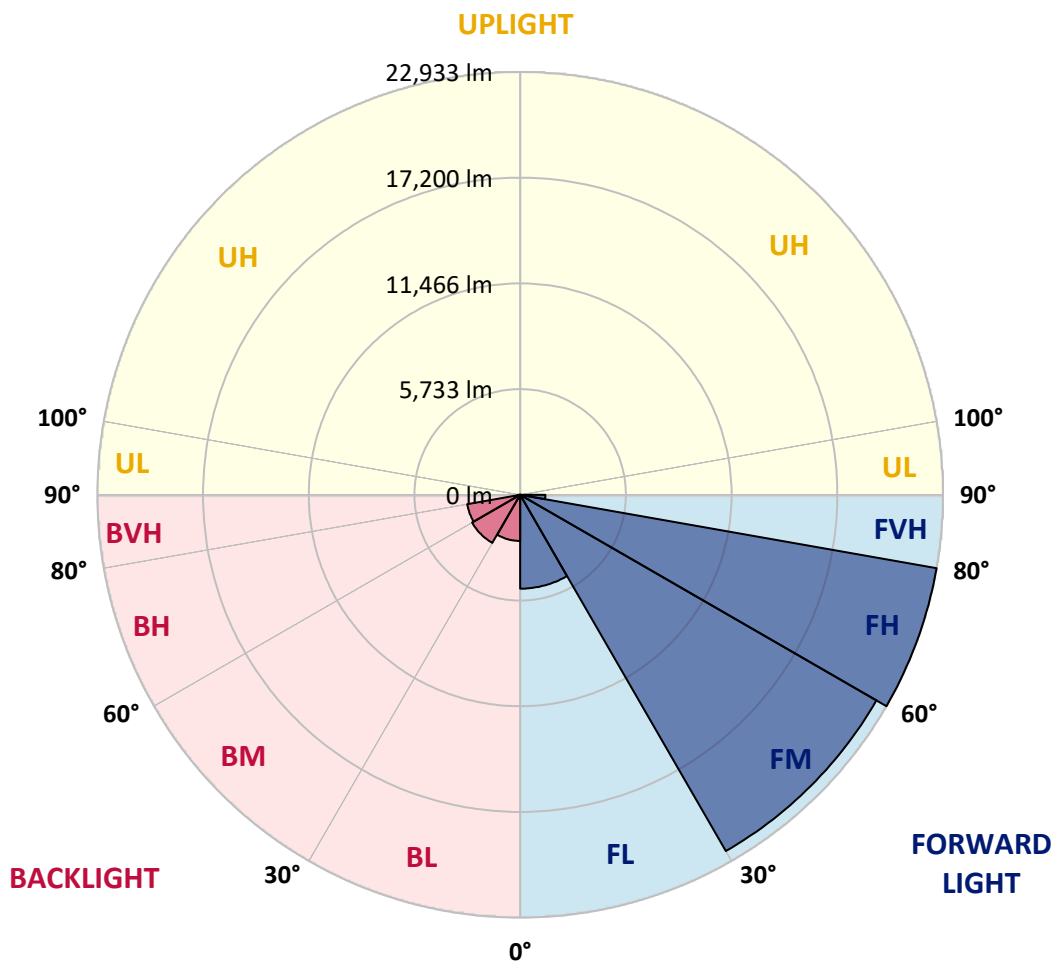
CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5089.2	8.4			
FM	(30°-60°)	22309.7	37.0			
FH	(60°-80°)	22932.8	38.0			G5
FVH	(80°-90°)	1366.6	2.3			G5
BL	(0°-30°)	2501.6	4.2	B4/5000		
BM	(30°-60°)	3012.6	5.0	B3/5000		
BH	(60°-80°)	2915.2	4.8	B4/5000		G4/5000
BVH	(80°-90°)	145.6	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





REPORT NUMBER: P191178

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	15358.6	15358.6	15358.6	15358.6	15358.6	15358.6	15358.6	15358.6	15358.6	15358.6	15358.6
2.5°	15673.0	15707.9	15693.4	15684.6	15710.9	15670.1	15585.7	15559.5	15518.7	15422.6	15259.6
5°	15084.8	15189.7	15183.9	15262.4	15393.5	15428.5	15390.6	15396.4	15320.7	15201.4	14930.6
7.5°	14068.7	14112.4	14135.6	14307.5	14546.3	14738.4	14901.4	14953.8	14918.9	14817.0	14467.6
10°	13020.5	13055.5	13110.9	13311.8	13614.6	13879.5	14188.1	14365.7	14441.4	14423.9	14033.8
12.5°	12120.8	12155.8	12228.6	12455.8	12816.8	13142.9	13591.2	13812.5	13993.0	14100.8	13681.5
15°	11314.3	11390.0	11459.9	11722.0	12126.7	12554.7	13061.3	13340.8	13620.4	13862.0	13370.0
17.5°	10685.4	10761.1	10802.0	11040.7	11471.6	11995.6	12589.7	12918.6	13268.1	13664.0	13061.3
20°	10321.6	10356.5	10339.0	10473.0	10860.2	11416.2	12120.8	12502.3	12924.5	13477.7	12752.7
22.5°	10219.6	10222.6	10158.5	10143.9	10394.3	10863.1	11620.1	12083.0	12601.3	13355.3	12487.8
25°	10467.1	10458.3	10283.7	10141.0	10167.2	10441.0	11136.8	11675.4	12330.5	13329.2	12283.9
27.5°	11017.4	11043.6	10784.5	10516.7	10251.6	10242.9	10769.9	11337.7	12109.3	13448.5	12196.5
30°	11789.0	11832.7	11556.1	11215.4	10717.5	10306.9	10627.2	11136.8	11972.4	13696.1	12182.0
32.5°	12633.3	12679.9	12470.3	12112.1	11459.9	10702.9	10726.3	11154.3	11966.6	14042.6	12281.0
35°	13533.0	13585.4	13477.7	13174.9	12449.9	11433.7	11104.7	11436.7	12155.8	14572.4	12546.0
37.5°	14537.5	14619.0	14648.1	14359.9	13585.4	12397.4	11724.9	11972.4	12583.8	15309.1	13032.2
40°	15984.5	16098.1	16089.4	15675.9	14886.9	13698.9	12682.9	12746.9	13250.6	16293.2	13809.6
42.5°	18756.3	18779.6	18054.7	17155.0	16319.3	15067.3	13812.5	13760.1	14170.6	17539.3	14953.8
45°	22282.2	22186.2	20573.2	18835.0	17815.9	16639.6	15282.9	15026.6	15338.1	19059.1	16386.3
47.5°	25208.4	24987.1	22949.0	20549.9	19399.9	18348.8	17009.4	16561.1	16732.8	20782.8	18238.1
50°	26224.6	26058.5	24369.9	21976.6	20899.3	20433.4	19134.9	18500.2	18546.7	22838.4	20407.3
52.5°	26006.2	25982.8	24856.1	22917.0	22302.7	22623.0	22145.5	21286.5	20832.3	25121.0	22748.1
55°	25490.8	25540.3	25132.7	24011.7	23907.0	24736.7	26079.0	25444.3	24032.1	27424.1	25167.7
57.5°	23700.2	23828.3	24725.0	25388.9	26489.5	27724.0	29246.8	29066.2	27476.6	29913.5	28044.3
60°	19094.1	19391.1	21796.0	25121.0	29147.8	33008.5	33689.9	33270.6	31028.7	33002.6	31843.8
62.5°	13378.7	13687.3	16546.4	21749.5	28711.1	38977.2	41632.6	39824.5	36129.7	37553.4	36761.5
65°	7162.5	7310.9	9494.6	15090.7	24238.8	40208.8	53241.0	50489.6	44206.4	43164.0	40968.8
67.5°	3951.0	4032.6	4868.1	7619.6	15524.5	35407.6	60636.4	62715.3	54300.9	46899.6	40203.0
69°	3572.5	3648.3	4195.5	5770.8	10388.5	29275.8	59914.3	65938.4	58726.5	46529.8	37373.0
70°	3493.9	3563.8	4055.8	5319.4	8408.7	24131.1	57494.8	65114.4	59780.4	45205.1	34903.9
72.5°	3144.4	3220.2	3697.7	4777.9	7185.7	12030.6	45542.8	55054.9	54274.6	39195.6	26474.9
75°	2932.0	3001.8	3811.2	4678.9	6880.1	7613.7	30024.1	40575.7	39897.3	27418.3	14275.5
77.5°	1254.9	1249.0	1767.4	3959.7	6981.9	7372.1	16133.1	25348.1	23126.7	11719.1	4099.5
80°	838.5	824.0	838.5	1164.6	6402.5	7412.9	8452.3	12866.3	9718.9	2987.3	2020.6
82.5°	722.1	710.4	736.6	710.4	2250.7	8461.0	7185.7	6842.2	4620.7	1697.5	1001.6
85°	486.2	465.9	634.7	637.6	1062.7	7517.7	8094.2	5779.5	3738.5	1007.4	495.0
87.5°	232.9	227.1	369.8	451.3	623.1	3054.2	9081.2	5922.2	3770.5	515.4	235.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191178

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15358.6	15358.6	15358.6	15358.6	15358.6	15358.6	15358.6	15358.6	15358.6	15358.6	15358.6
2.5°	15210.1	15090.7	14974.3	14834.4	14688.9	14525.8	14444.3	14362.7	14342.4	14319.2	14237.6
5°	14790.7	14622.0	14330.7	14010.5	13672.8	13343.8	13093.4	12936.1	12816.8	12755.6	12647.9
7.5°	14249.2	14001.7	13492.2	12939.0	12371.3	11853.0	11404.7	11122.2	10854.3	10729.1	10586.5
10°	13733.9	13364.1	12572.2	11757.0	10941.7	10158.5	9421.9	8900.7	8437.7	8178.6	7995.2
12.5°	13291.3	12784.7	11687.0	10583.6	9465.6	8350.3	7246.9	6379.2	5654.3	5272.9	5077.8
15°	12860.4	12249.0	10845.6	9445.1	8009.7	6492.8	5042.8	4058.8	3458.9	3220.2	3138.7
17.5°	12470.3	11687.0	10001.3	8298.0	6507.4	4673.0	3389.0	2847.5	2617.5	2538.9	2512.7
20°	12048.1	11119.3	9124.8	7098.5	4941.0	3266.8	2646.6	2407.8	2314.7	2291.4	2279.7
22.5°	11640.5	10560.2	8286.3	5814.5	3549.2	2521.5	2273.9	2174.9	2160.4	2180.7	2180.7
25°	11294.0	10059.5	7380.8	4472.1	2605.9	2122.5	2035.2	2011.9	2067.2	2142.9	2157.5
27.5°	11034.9	9649.0	6417.1	3301.7	2076.0	1845.9	1843.1	1880.9	2017.8	2163.3	2192.4
30°	10857.3	9258.8	5386.4	2381.6	1741.2	1624.7	1671.2	1752.7	1953.6	2160.4	2215.7
32.5°	10767.0	8970.6	4312.0	1843.1	1490.7	1426.7	1505.3	1604.3	1802.2	1994.4	2067.2
35°	10836.8	8758.0	3298.8	1537.3	1316.0	1266.5	1348.0	1444.1	1560.6	1642.1	1697.5
37.5°	11098.9	8673.6	2489.4	1377.2	1196.6	1150.1	1214.1	1269.5	1316.0	1339.3	1365.5
40°	11663.8	8763.8	1994.4	1295.7	1129.6	1071.4	1097.6	1118.1	1147.1	1170.5	1182.1
42.5°	12496.5	9034.6	1787.7	1263.7	1094.8	1010.3	1004.5	1013.2	1051.1	1094.8	1103.5
45°	13661.1	9512.1	1773.2	1284.0	1077.3	960.9	934.6	946.2	1004.5	1071.4	1083.1
47.5°	15148.9	10240.0	1889.6	1345.2	1091.8	934.6	891.0	905.5	978.2	1068.6	1083.1
50°	16951.2	11256.1	2084.7	1435.4	1155.9	940.4	876.4	885.2	960.9	1059.8	1074.4
52.5°	19079.6	12697.4	2297.2	1522.8	1222.8	978.2	888.0	867.7	937.5	1024.9	1042.4
55°	21446.7	14546.3	2515.6	1601.3	1257.8	1024.9	911.3	844.3	893.9	966.7	981.2
57.5°	24352.4	17131.7	2894.1	1677.0	1281.0	1056.9	934.6	821.0	838.5	891.0	902.5
60°	28285.9	20788.6	3560.9	1802.2	1333.5	1068.6	931.7	800.7	783.2	812.3	818.2
62.5°	32999.8	24760.0	4117.0	1959.5	1420.9	1077.3	914.2	786.1	736.6	736.6	742.5
65°	35797.8	25822.8	3808.3	2090.5	1493.6	1068.6	893.9	771.6	701.6	669.6	672.6
67.5°	33424.8	22710.2	3263.8	2116.7	1490.7	1027.8	861.8	745.3	666.8	617.2	614.4
69°	30452.1	19594.9	3019.3	2046.8	1420.9	975.4	821.0	716.3	640.6	588.1	585.2
70°	28056.0	17693.7	2859.1	1971.1	1345.2	937.5	789.0	690.1	620.2	570.7	564.9
72.5°	20398.5	11593.9	2442.8	1694.5	1109.3	786.1	681.3	605.6	553.2	524.1	518.2
75°	10193.4	5529.0	1982.8	1374.2	850.2	628.9	559.0	506.6	480.4	474.5	471.7
77.5°	3348.3	2533.0	1417.9	1024.9	631.8	492.0	451.3	413.5	407.6	425.1	419.3
80°	1840.1	1473.3	899.7	678.4	430.9	361.0	355.2	334.8	343.6	372.7	366.8
82.5°	937.5	765.8	556.1	407.6	291.1	259.1	282.4	270.8	282.4	308.6	305.8
85°	463.0	419.3	352.3	247.5	192.2	165.9	200.9	209.6	215.4	235.8	235.8
87.5°	267.9	247.5	186.4	116.4	96.1	87.4	116.4	113.5	133.9	145.6	142.7
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)