

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: P269748

Luminaire Tested: **GLEON-AF-10-LED-E1-T3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56165.3 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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

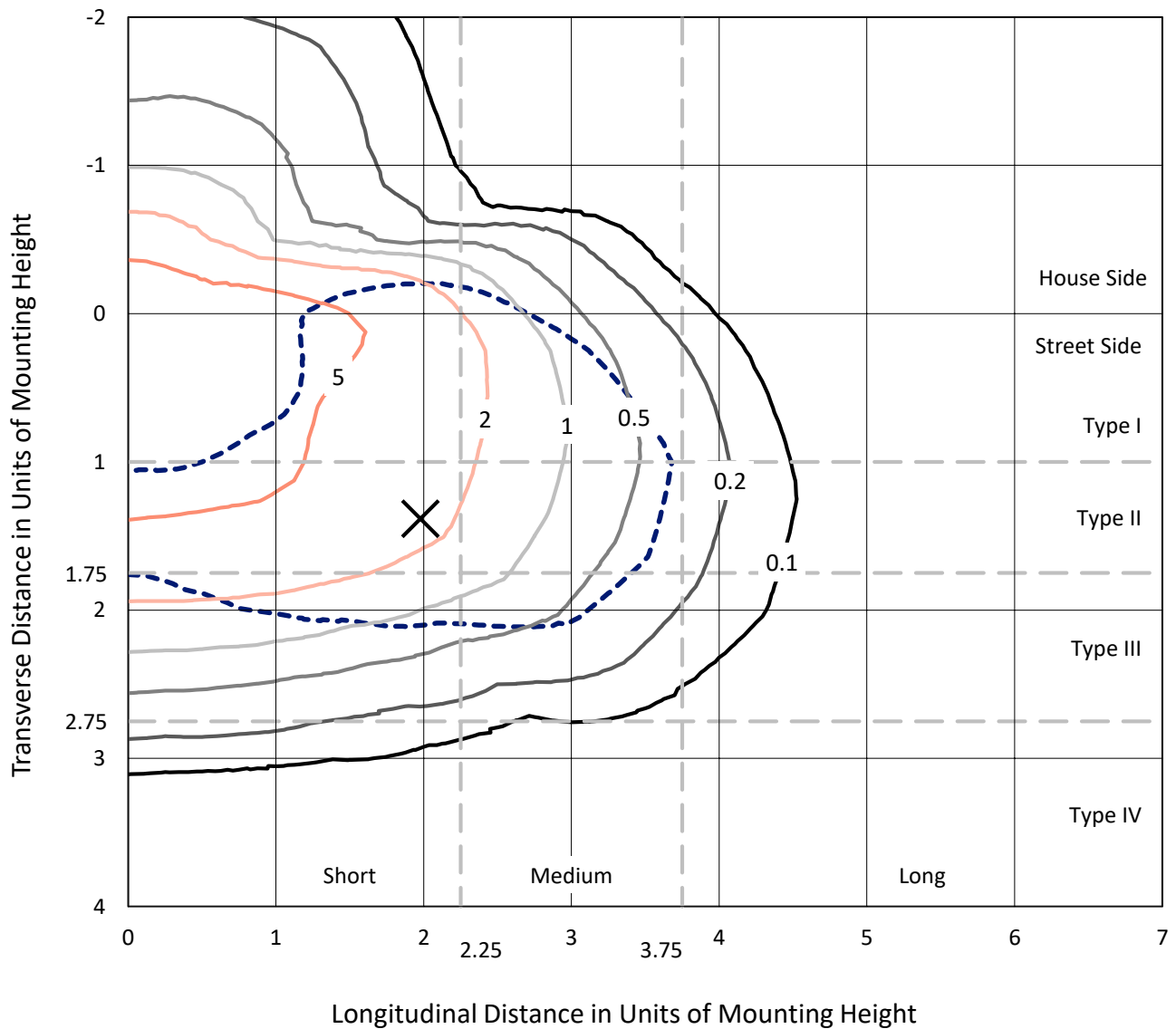


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Iso-Footcandle Lines of Horizontal Illumination

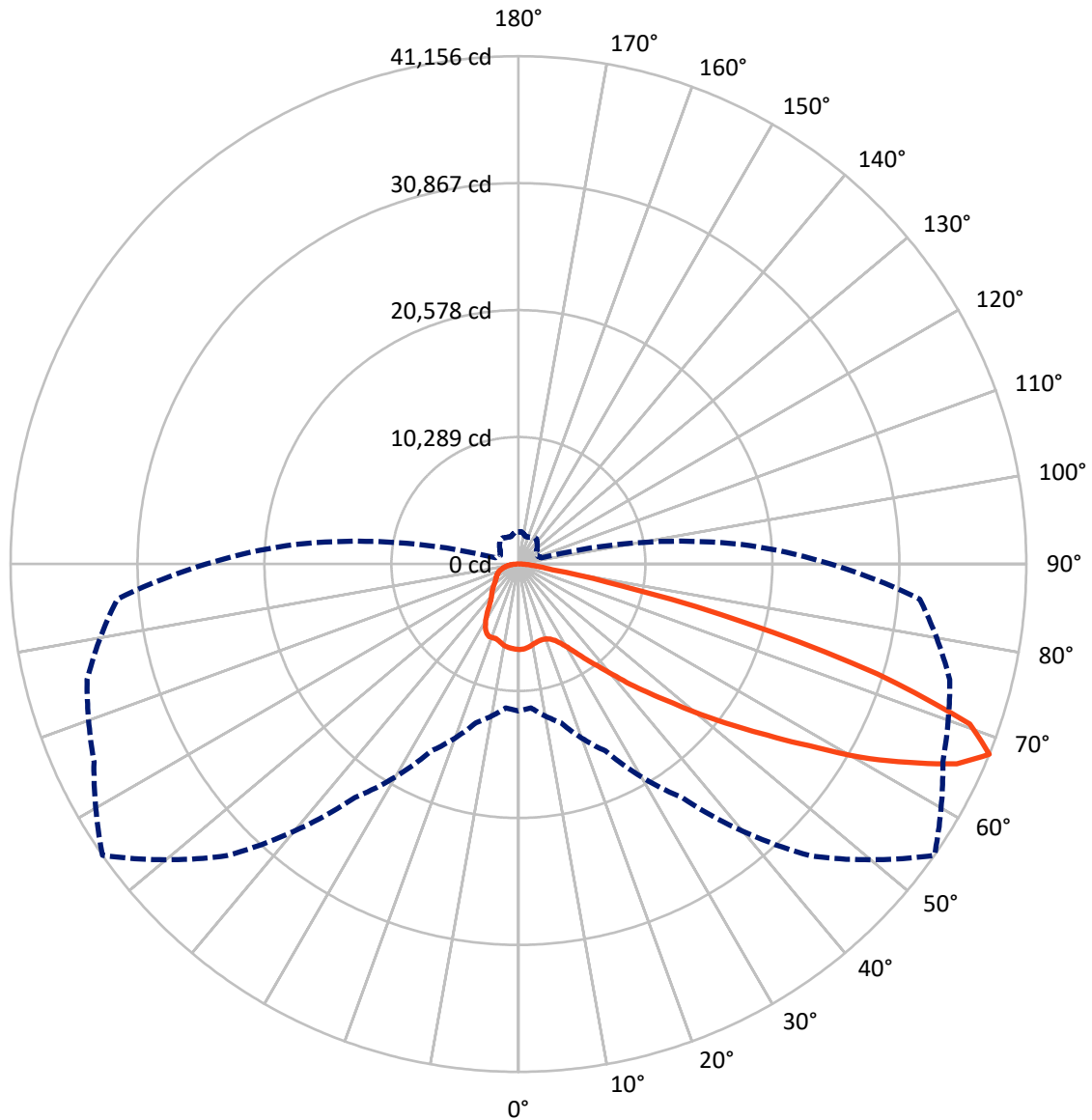
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12132.9	0.0	12132.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	44032.4	0.0	44032.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	56165.3	0.0	56165.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.5	1.2
10°-20°	1830.8	3.3
20°-30°	3066.9	5.5
30°-40°	5043.3	9.0
40°-50°	8489.4	15.1
50°-60°	13361.7	23.8
60°-70°	15945.7	28.4
70°-80°	6847.4	12.2
80°-90°	933.6	1.7
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°	56165.3	100.0
0°-180°	56165.3	100.0



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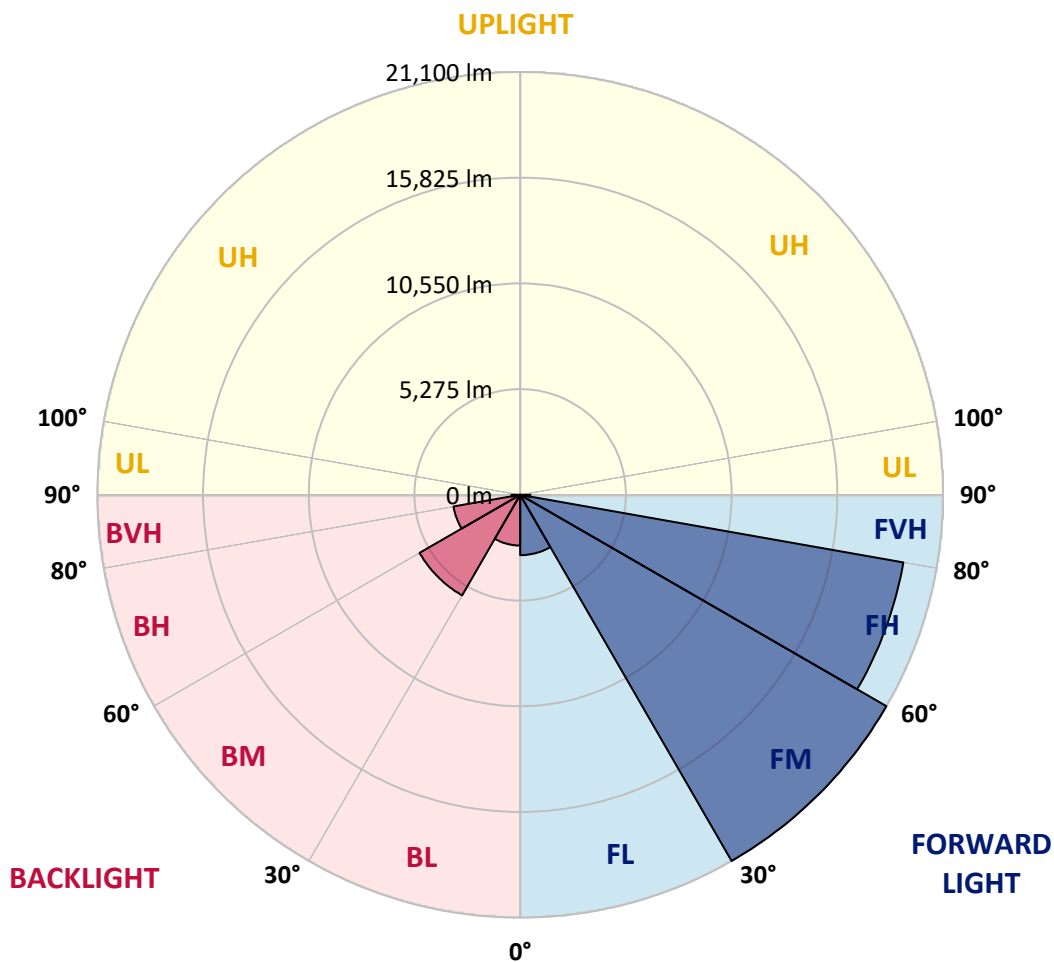
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3010.6	5.4			
FM	(30°-60°)	21099.8	37.6			
FH	(60°-80°)	19416.6	34.6			G5
FVH	(80°-90°)	505.4	0.9			G4/750
BL	(0°-30°)	2533.6	4.5	B4/5000		
BM	(30°-60°)	5794.5	10.3	B4/8500		
BH	(60°-80°)	3376.5	6.0	B4/5000		G4/5000
BVH	(80°-90°)	428.2	0.8			G3/500
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6925.8	6925.8	6925.8	6925.8	6925.8	6925.8	6925.8	6925.8	6925.8	6925.8	6925.8
2.5°	6866.1	6868.8	6874.3	6896.0	6915.0	6909.6	6912.2	6901.4	6898.7	6882.4	6898.7
5°	6779.2	6787.5	6790.2	6825.4	6847.2	6852.5	6844.4	6830.8	6814.5	6798.4	6806.5
7.5°	6581.3	6603.0	6605.6	6654.6	6689.8	6735.9	6738.6	6741.3	6733.2	6722.3	6738.6
10°	6456.5	6461.9	6459.3	6494.4	6521.5	6573.1	6603.0	6654.6	6676.3	6681.7	6692.6
12.5°	6448.4	6443.0	6434.7	6434.7	6426.7	6448.4	6502.7	6575.9	6627.3	6643.7	6657.2
15°	6535.2	6532.5	6505.3	6464.7	6413.1	6396.8	6443.0	6524.3	6592.1	6627.3	6640.9
17.5°	6730.6	6714.2	6670.9	6578.6	6467.3	6423.9	6429.3	6497.3	6575.9	6621.9	6635.5
20°	7088.5	7088.5	6996.3	6822.6	6624.7	6521.5	6472.7	6513.4	6589.3	6651.8	6670.9
22.5°	7707.1	7712.5	7557.9	7273.0	6939.3	6719.6	6597.5	6589.3	6678.9	6749.4	6771.2
25°	8583.3	8561.7	8344.5	7937.7	7430.4	7066.8	6855.2	6806.5	6882.4	6961.1	6988.2
27.5°	9603.3	9524.6	9266.9	8775.9	8119.4	7587.8	7262.2	7183.4	7256.8	7346.2	7373.4
30°	10612.4	10531.1	10224.6	9687.4	8957.7	8284.9	7818.3	7690.7	7793.9	7921.4	7937.7
32.5°	11621.6	11621.6	11279.8	10653.2	9858.3	9117.7	8559.0	8407.0	8577.8	8732.6	8767.7
35°	12828.9	12834.3	12503.2	11749.1	10894.6	10110.7	9494.8	9383.5	9641.2	9749.8	9833.9
37.5°	14312.8	14342.6	13916.7	13005.2	12069.3	11244.5	10512.1	10360.2	10618.0	10913.6	11184.8
40°	15916.0	15954.0	15484.8	14361.7	13425.7	12562.9	11770.9	11496.9	11925.4	12489.8	12839.7
42.5°	17446.1	17641.4	17188.3	16032.7	15026.2	14133.8	13330.7	12931.9	13469.0	14320.9	14624.8
45°	19657.0	19798.0	19008.7	17961.5	17014.6	16016.4	14952.9	14532.5	15283.9	16358.2	16420.6
47.5°	21130.0	21024.2	20622.7	19971.7	19372.2	18438.9	16838.4	16377.2	17375.6	18639.7	18289.8
50°	21914.1	21946.6	21892.4	21930.3	21952.1	21366.0	19149.7	18517.7	19708.5	21235.8	20430.2
52.5°	22646.5	22429.5	22608.5	23498.4	24572.5	24355.6	21664.5	21005.2	22209.8	24116.8	22692.7
55°	22630.2	22299.3	22882.5	24453.2	26783.5	27033.1	24488.4	23728.9	24854.8	27206.7	25090.6
57.5°	21829.9	21846.2	22744.1	24800.4	28324.4	29550.6	27765.5	26626.2	27659.7	30337.3	27280.0
60°	20728.6	20877.8	22171.7	24743.5	29558.6	31614.9	31785.9	29748.6	30407.8	33183.0	29092.1
62.5°	18951.6	19108.9	20894.0	24152.1	29371.5	33603.4	35421.1	33291.5	33280.6	34908.3	29623.9
65°	16149.3	16103.1	17977.8	21941.2	27800.8	35073.9	39031.8	36354.2	35445.5	34935.5	28555.1
67.5°	11909.2	11703.1	13311.8	16710.9	23107.7	33427.2	41155.9	37949.4	36183.4	32637.8	25288.7
70°	6179.8	5973.5	7275.7	9758.0	15197.2	26089.0	38803.9	37124.8	34552.9	27358.6	19811.6
72.5°	2642.3	2607.1	3136.1	4280.9	7351.6	15048.0	30426.9	32133.2	29648.3	20384.0	13621.0
75°	1776.8	1766.1	1964.1	2333.0	3306.9	6106.5	19041.2	22809.3	21691.6	12639.0	7660.9
77.5°	1394.3	1380.9	1497.5	1676.4	2143.1	2409.0	8450.4	12245.7	11334.2	5501.6	3353.1
80°	1090.5	1079.8	1153.0	1250.6	1540.9	1519.2	2780.7	4872.1	3770.7	2107.9	1630.5
82.5°	859.9	859.9	919.7	922.4	1093.2	1036.3	1451.3	2145.8	1882.7	1228.9	998.2
85°	786.7	786.7	849.1	689.1	713.4	653.7	900.6	1272.3	1193.7	504.6	434.1
87.5°	396.1	385.3	713.4	610.4	388.0	347.3	439.5	615.8	662.0	279.5	217.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6925.8	6925.8	6925.8	6925.8	6925.8	6925.8	6925.8	6925.8	6925.8	6925.8
2.5°	6893.2	6890.4	6896.0	6898.7	6920.4	6950.1	6963.8	6982.7	6993.7	6988.2
5°	6811.8	6817.2	6838.9	6855.2	6893.2	6942.1	6969.2	6990.9	7010.0	7001.7
7.5°	6744.0	6757.6	6790.2	6803.8	6825.4	6838.9	6836.3	6844.4	6860.6	6841.8
10°	6706.0	6722.3	6746.7	6727.8	6676.3	6603.0	6535.2	6499.9	6510.7	6497.3
12.5°	6668.1	6689.8	6670.9	6581.3	6437.4	6342.6	6291.0	6296.4	6320.8	6326.3
15°	6646.4	6654.6	6573.1	6404.9	6258.4	6244.8	6272.0	6266.5	6269.4	6269.4
17.5°	6646.4	6624.7	6472.7	6304.6	6242.1	6217.8	6133.6	6027.8	5981.8	5965.5
20°	6681.7	6624.7	6440.2	6329.0	6193.4	5984.5	5762.0	5566.6	5479.9	5455.4
22.5°	6787.5	6689.8	6532.5	6339.8	5954.7	5604.6	5252.0	5018.7	4861.4	4834.1
25°	7001.7	6893.2	6714.2	6196.1	5574.8	5075.7	4674.2	4413.7	4256.3	4234.7
27.5°	7376.2	7305.6	6811.8	5878.7	5070.3	4535.8	4164.2	3963.4	3846.7	3838.5
30°	7940.4	7905.2	6763.0	5409.4	4448.9	4012.2	3833.2	3716.6	3629.7	3627.0
32.5°	8840.9	8556.1	6603.0	4837.0	3882.0	3640.7	3567.3	3496.8	3429.0	3429.0
35°	9999.5	9082.5	6299.2	4223.8	3537.4	3434.4	3342.1	3230.9	3141.5	3136.1
37.5°	11361.3	9407.9	5753.9	3730.1	3374.8	3296.1	3160.3	2994.9	2837.6	2810.4
40°	12736.6	9505.7	4986.1	3426.2	3271.6	3157.7	2992.3	2797.0	2645.0	2636.9
42.5°	13998.1	9318.5	4172.3	3217.4	3168.5	3016.7	2843.0	2669.5	2550.1	2547.4
45°	15056.0	8832.9	3488.7	3019.4	3060.0	2889.0	2734.5	2593.4	2501.2	2482.2
47.5°	16051.6	8146.5	3008.6	2810.4	2951.6	2818.6	2688.4	2555.5	2465.9	2452.4
50°	17207.4	7405.9	2672.1	2607.1	2856.6	2794.2	2726.4	2587.9	2438.8	2422.5
52.5°	18607.1	6765.8	2409.0	2427.9	2783.4	2826.7	2824.0	2680.3	2419.9	2398.1
55°	20169.7	6054.9	2211.0	2281.4	2753.6	2886.4	2848.4	2767.0	2436.2	2403.5
57.5°	21707.9	5224.8	2072.6	2170.2	2710.0	2881.0	2731.7	2615.1	2474.1	2427.9
60°	22860.7	4109.8	1966.7	2072.6	2615.1	2791.5	2604.2	2449.7	2465.9	2430.6
62.5°	22936.8	3176.6	1839.3	1988.5	2471.3	2701.9	2520.1	2376.5	2501.2	2468.6
65°	21588.4	2400.8	1717.2	1888.1	2316.6	2645.0	2438.8	2335.8	2574.5	2539.1
67.5°	18175.8	1931.5	1614.2	1785.0	2162.1	2525.7	2365.5	2297.8	2639.6	2577.1
70°	13121.8	1646.7	1513.7	1660.2	2023.7	2390.0	2300.5	2230.0	2463.2	2365.5
72.5°	8078.7	1427.0	1399.7	1494.8	1917.9	2248.8	2202.9	2102.5	2219.1	2140.4
75°	4034.0	1237.1	1272.3	1331.9	1768.8	2088.9	2040.1	1939.7	1955.9	1939.7
77.5°	1931.5	1058.1	1123.2	1169.2	1576.2	1907.1	1855.5	1752.5	1733.5	1736.2
80°	1223.5	884.4	946.8	979.3	1408.0	1695.6	1644.0	1540.9	1758.0	1630.5
82.5°	764.9	719.0	735.2	794.8	1226.1	1475.7	1408.0	1315.7	1584.3	1253.3
85°	423.2	501.9	523.6	575.2	944.1	1234.4	1166.4	1049.8	941.3	925.1
87.5°	252.3	298.3	306.5	344.5	634.8	892.6	789.4	748.7	621.3	618.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)