

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: P194090

Luminaire Tested: **GLEON-AF-02-LED-E1-T4W-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-T4W-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6502 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

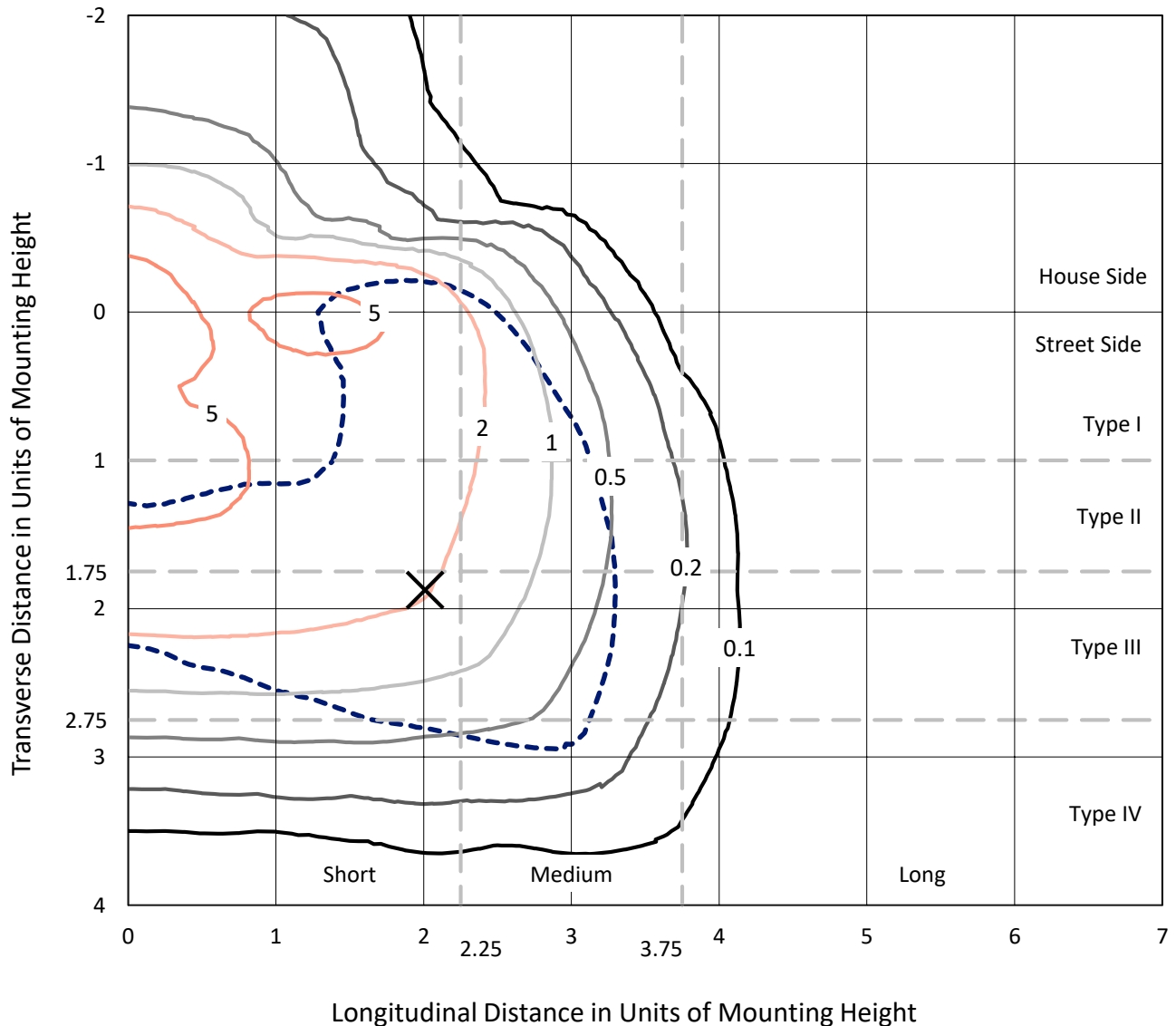


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

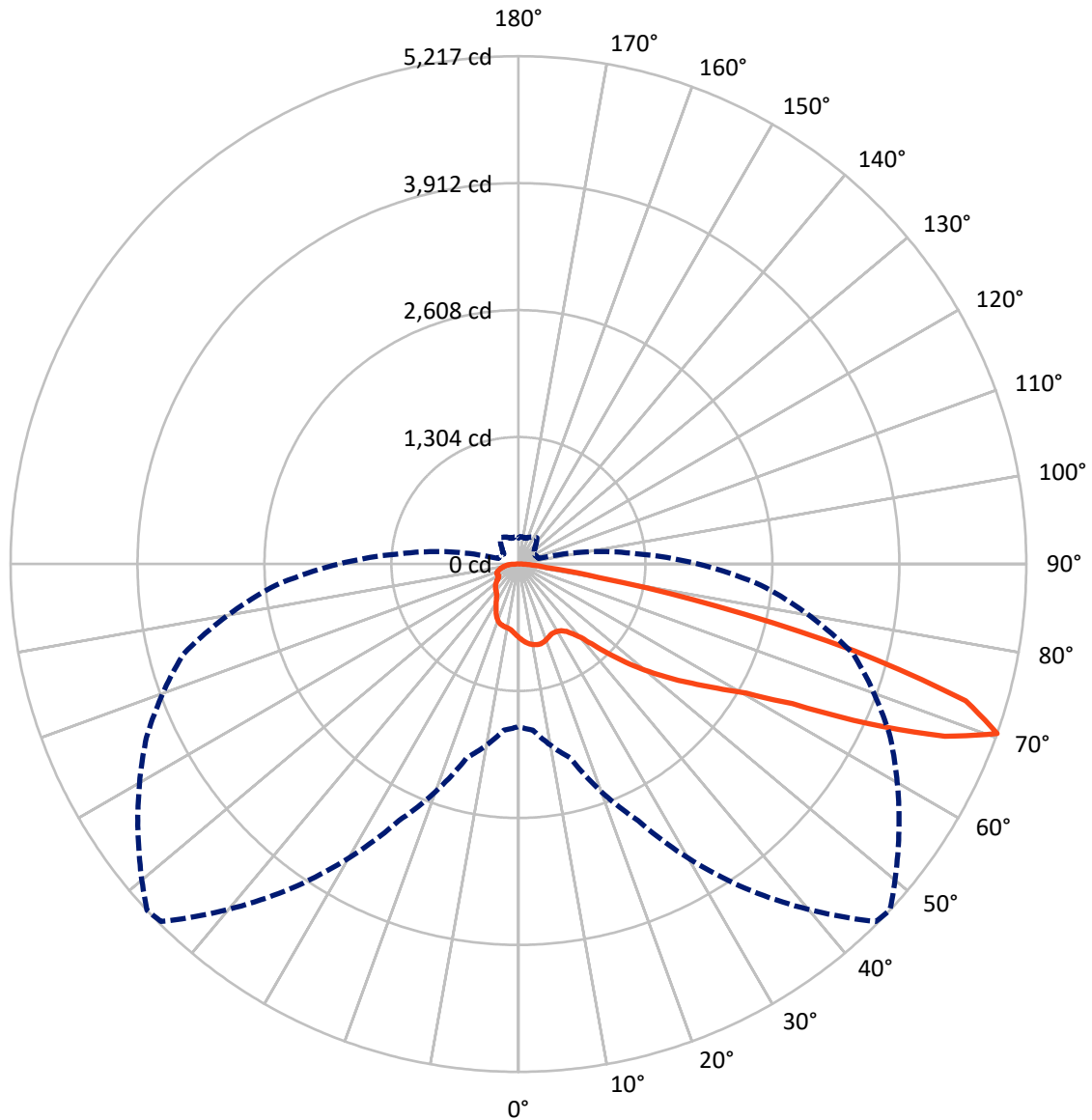


Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1356.4	0.0	1356.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	5145.6	0.0	5145.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	6502.0	0.0	6502.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	1.1
10°-20°	212.1	3.3
20°-30°	313.2	4.8
30°-40°	455.2	7.0
40°-50°	819.2	12.6
50°-60°	1419.2	21.8
60°-70°	2025.6	31.2
70°-80°	1039.8	16.0
80°-90°	145.6	2.2
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°	6502.0	100.0
0°-180°	6502.0	100.0



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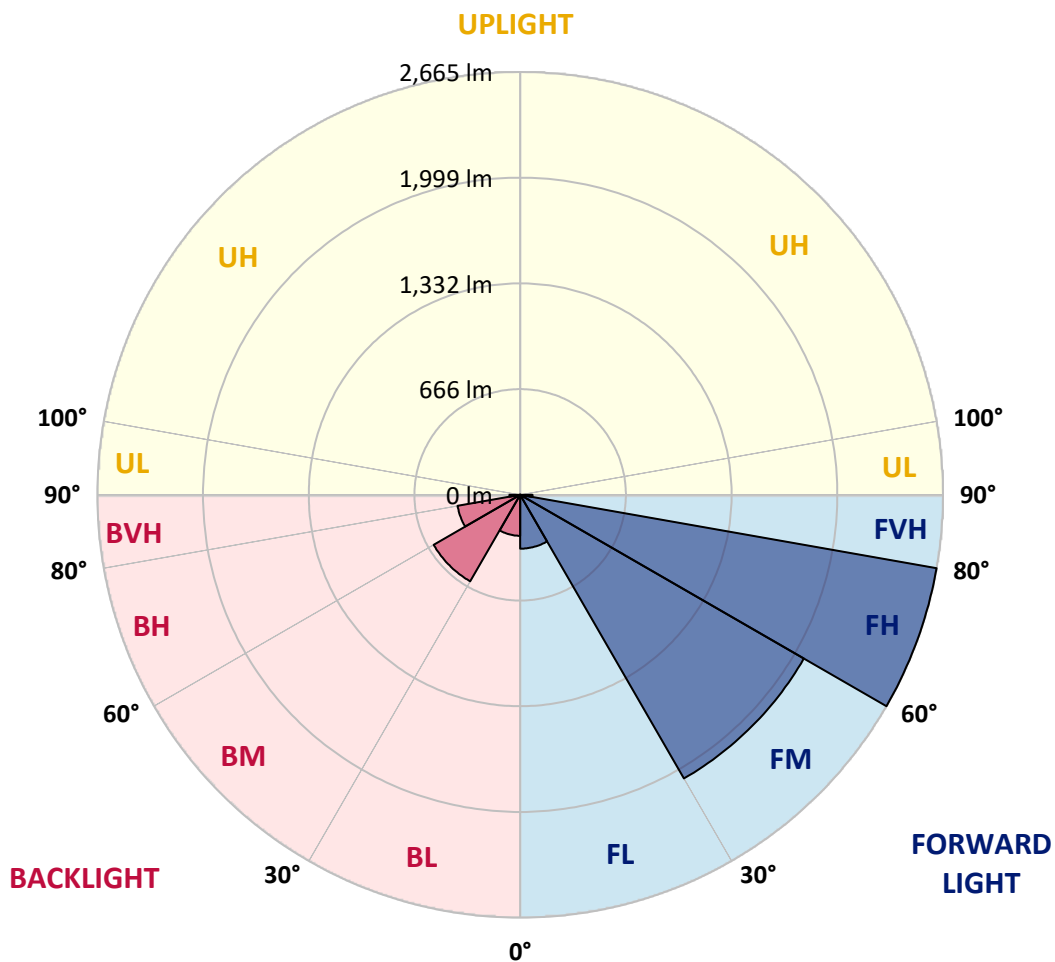
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	339.3	5.2			
FM	(30°-60°)	2063.9	31.7			
FH	(60°-80°)	2664.7	41.0			G2/5000
FVH	(80°-90°)	77.7	1.2			G1/100
BL	(0°-30°)	258.3	4.0	B1/500		
BM	(30°-60°)	629.6	9.7	B1/1000		
BH	(60°-80°)	400.7	6.2	B1/500		G1/500
BVH	(80°-90°)	67.9	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	754.4	754.4	754.4	754.4	754.4	754.4	754.4	754.4	754.4	754.4	754.4
2.5°	798.7	797.1	796.5	795.2	793.7	785.8	784.2	778.5	770.6	762.3	753.8
5°	851.2	850.9	847.4	841.1	831.0	813.6	809.5	795.6	776.9	758.9	740.8
7.5°	897.4	894.6	887.9	875.3	857.6	833.8	828.1	808.8	783.2	758.5	734.2
10°	931.3	929.7	915.1	897.7	874.6	848.4	841.7	820.2	792.1	760.8	730.4
12.5°	950.6	947.4	930.6	909.7	882.2	856.6	850.0	828.1	796.5	760.8	725.0
15°	949.3	947.1	930.3	907.5	879.7	857.2	851.2	829.4	795.6	757.6	718.1
17.5°	924.0	924.9	910.7	888.2	865.5	848.4	843.0	822.8	789.2	751.3	709.8
20°	879.7	884.1	874.6	854.7	842.1	830.4	826.9	809.8	779.4	742.1	701.0
22.5°	835.4	839.5	835.7	819.0	817.1	810.1	808.2	795.9	770.9	736.4	695.6
25°	802.8	806.6	806.0	791.4	797.1	796.8	795.2	789.2	769.0	736.4	696.5
27.5°	794.0	795.2	794.0	780.7	788.6	794.9	793.7	792.7	774.7	745.6	708.6
30°	824.3	822.4	812.6	785.8	793.0	801.9	800.6	801.3	791.8	769.6	735.5
32.5°	945.5	937.0	906.0	830.4	811.1	815.8	816.4	826.9	828.5	806.6	777.2
35°	1126.7	1117.3	1077.1	949.9	867.0	850.6	850.6	866.4	875.9	859.8	842.1
37.5°	1318.8	1308.3	1286.8	1115.7	984.7	911.0	909.4	920.5	934.1	937.9	942.3
40°	1537.0	1526.0	1532.0	1301.7	1148.9	1015.7	993.3	985.4	1022.0	1046.4	1081.8
42.5°	1775.8	1770.8	1773.0	1508.9	1335.8	1172.3	1140.4	1099.5	1143.8	1187.2	1261.5
45°	1997.0	2001.4	1999.2	1730.6	1544.0	1363.4	1329.5	1250.4	1293.8	1368.1	1489.3
47.5°	2190.5	2172.2	2200.7	1972.9	1777.1	1577.2	1535.4	1429.5	1473.4	1565.2	1770.2
50°	2425.6	2423.0	2381.3	2296.2	2059.0	1792.0	1737.3	1614.5	1682.8	1810.3	2124.1
52.5°	2672.6	2626.8	2588.5	2547.7	2357.9	2012.1	1945.1	1798.9	1928.9	2089.3	2555.6
55°	2723.2	2702.7	2750.1	2818.8	2646.1	2240.8	2162.7	2030.2	2206.0	2408.2	3053.2
57.5°	2831.4	2831.1	2929.2	3051.6	2942.8	2483.5	2404.7	2309.5	2517.6	2773.5	3581.4
60°	2904.5	2925.1	3107.3	3344.8	3234.1	2763.7	2691.3	2631.8	2871.9	3181.9	4073.6
62.5°	2942.8	2970.6	3219.2	3463.8	3646.0	3230.3	3157.9	3072.1	3340.7	3629.8	4361.5
65°	2783.7	2838.4	3201.8	3566.6	4006.6	3986.6	3954.1	3803.5	3926.9	3983.8	4257.4
67.5°	2343.3	2399.3	2822.6	3470.7	4264.1	4716.1	4723.0	4465.9	4287.5	4014.2	3579.5
70°	1669.6	1713.5	2063.7	2909.9	4067.9	5192.8	5216.5	4771.1	4215.7	3559.9	2500.9
72.5°	792.7	819.6	1151.1	1893.8	3228.1	4757.8	4803.7	4381.4	3584.6	2635.6	1364.3
75°	291.3	299.6	389.1	805.7	1872.3	3508.7	3562.8	3140.8	2376.2	1312.1	519.7
77.5°	174.6	180.0	218.3	340.0	736.4	2005.5	2085.5	1708.2	1038.5	488.4	255.6
80°	122.1	125.9	156.6	211.6	348.0	764.2	835.4	697.2	413.8	309.0	186.0
82.5°	82.6	84.5	110.1	143.0	231.2	273.0	294.5	310.0	279.0	230.0	118.0
85°	54.1	56.0	74.7	94.3	147.1	141.1	144.2	182.5	203.7	156.3	65.5
87.5°	31.0	32.3	44.9	50.3	72.1	59.8	60.4	96.2	130.3	105.3	39.9
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°	754.4	754.4	754.4	754.4	754.4	754.4	754.4	754.4	754.4	754.4	754.4
2.5°	751.6	747.5	738.3	732.6	727.2	726.0	723.8	723.4	723.1	723.1	722.2
5°	734.8	727.9	713.6	705.7	699.1	698.4	698.1	699.7	700.3	701.0	700.0
7.5°	724.1	714.6	696.9	685.5	677.6	675.7	678.8	686.1	690.9	692.8	691.8
10°	717.4	705.7	685.2	672.8	666.2	665.2	669.3	677.9	687.7	691.5	691.2
12.5°	709.8	696.5	674.7	661.8	658.0	659.9	665.2	673.1	683.3	689.3	689.6
15°	702.2	686.7	664.3	652.9	651.3	653.8	658.9	664.9	672.8	678.8	679.5
17.5°	693.1	676.9	654.5	642.8	641.5	642.8	643.1	646.3	651.3	657.0	658.6
20°	683.3	666.8	643.4	631.7	626.0	620.9	615.3	615.9	617.5	623.2	624.4
22.5°	676.3	659.9	634.9	618.7	603.5	588.4	577.0	575.4	576.0	580.8	582.4
25°	676.9	659.5	632.6	604.8	571.6	547.2	532.1	529.5	529.2	532.7	534.9
27.5°	689.3	671.9	640.9	590.6	536.8	500.7	484.6	482.7	480.2	481.1	483.7
30°	716.8	700.7	660.8	576.0	499.2	455.2	438.4	436.5	433.0	431.5	433.4
32.5°	761.7	748.4	689.9	562.1	461.5	416.3	399.2	395.1	392.9	391.0	392.6
35°	836.4	830.7	728.8	546.9	428.3	386.2	370.7	364.4	361.2	364.7	367.3
37.5°	953.4	956.6	779.7	523.2	402.7	366.3	353.3	346.1	341.3	344.2	347.0
40°	1119.2	1121.4	836.0	489.7	380.5	354.6	340.7	334.0	327.4	322.3	322.0
42.5°	1336.8	1314.3	891.4	453.3	354.9	347.3	331.8	323.6	313.5	299.6	296.7
45°	1594.9	1516.1	933.5	411.5	326.1	338.5	322.0	310.6	294.8	279.6	278.0
47.5°	1892.3	1732.8	954.0	368.2	299.2	325.5	310.0	292.0	272.0	264.4	263.5
50°	2255.4	1990.0	963.8	326.1	275.8	308.4	292.6	271.4	254.6	253.1	252.1
52.5°	2668.8	2299.4	967.0	291.7	256.5	286.3	278.4	257.8	244.5	245.8	245.8
55°	3101.6	2618.9	924.0	266.7	238.8	263.5	268.9	252.4	241.4	246.4	248.3
57.5°	3498.9	2902.0	788.6	247.4	222.1	246.1	265.4	257.5	249.9	270.5	271.7
60°	3803.8	3069.3	589.0	230.0	209.7	240.1	274.6	276.8	278.7	327.7	334.4
62.5°	3867.7	3013.6	404.9	216.4	204.0	245.2	291.3	291.7	289.4	323.6	327.7
65°	3574.5	2661.6	294.5	208.8	199.3	254.3	305.6	298.9	284.4	310.3	302.7
67.5°	2838.7	2005.2	245.2	203.1	192.3	253.7	320.8	305.6	281.5	304.0	291.7
70°	1842.6	1212.5	218.3	198.3	184.1	241.7	329.6	304.9	273.3	282.8	268.2
72.5°	899.0	542.2	200.2	191.4	175.6	224.9	329.3	299.2	264.8	264.1	256.2
75°	351.8	248.3	183.8	180.9	161.0	205.9	320.4	291.0	254.6	244.5	241.7
77.5°	205.9	177.1	162.9	165.4	143.6	186.9	307.5	276.8	240.7	228.7	225.5
80°	149.9	132.5	138.9	143.0	122.7	168.0	290.1	259.4	225.2	231.2	226.8
82.5°	96.2	85.4	112.6	116.7	102.2	148.7	271.1	241.0	203.4	184.7	180.3
85°	49.0	54.1	83.8	88.9	78.8	122.1	248.0	216.7	178.7	153.7	156.3
87.5°	27.5	37.0	53.5	59.8	55.7	93.9	201.2	178.7	145.8	118.6	104.4
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)