

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: P191569

Luminaire Tested: **GLEON-AF-01-LED-E1-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191569  
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-01-LED-E1-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6331 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

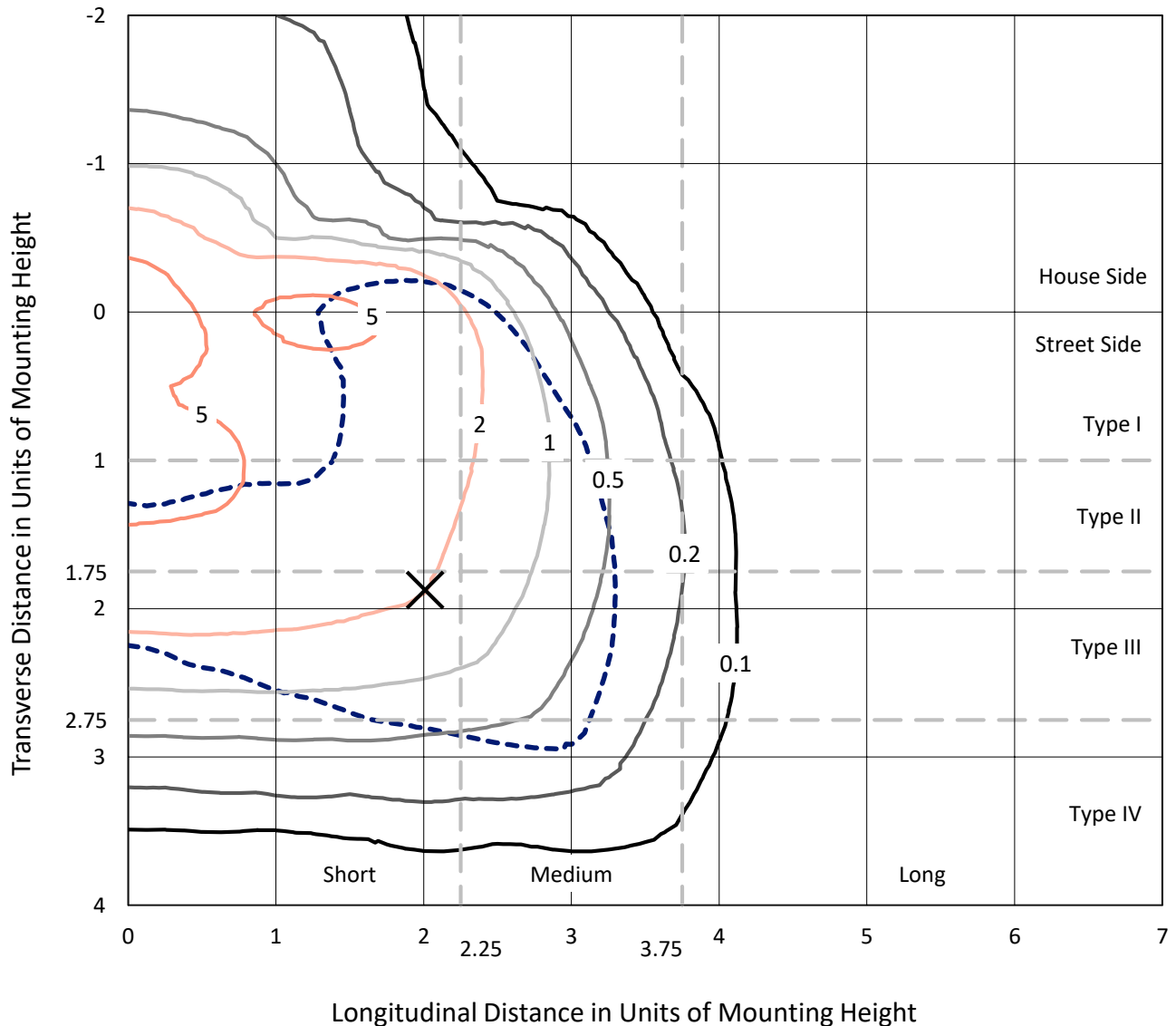
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

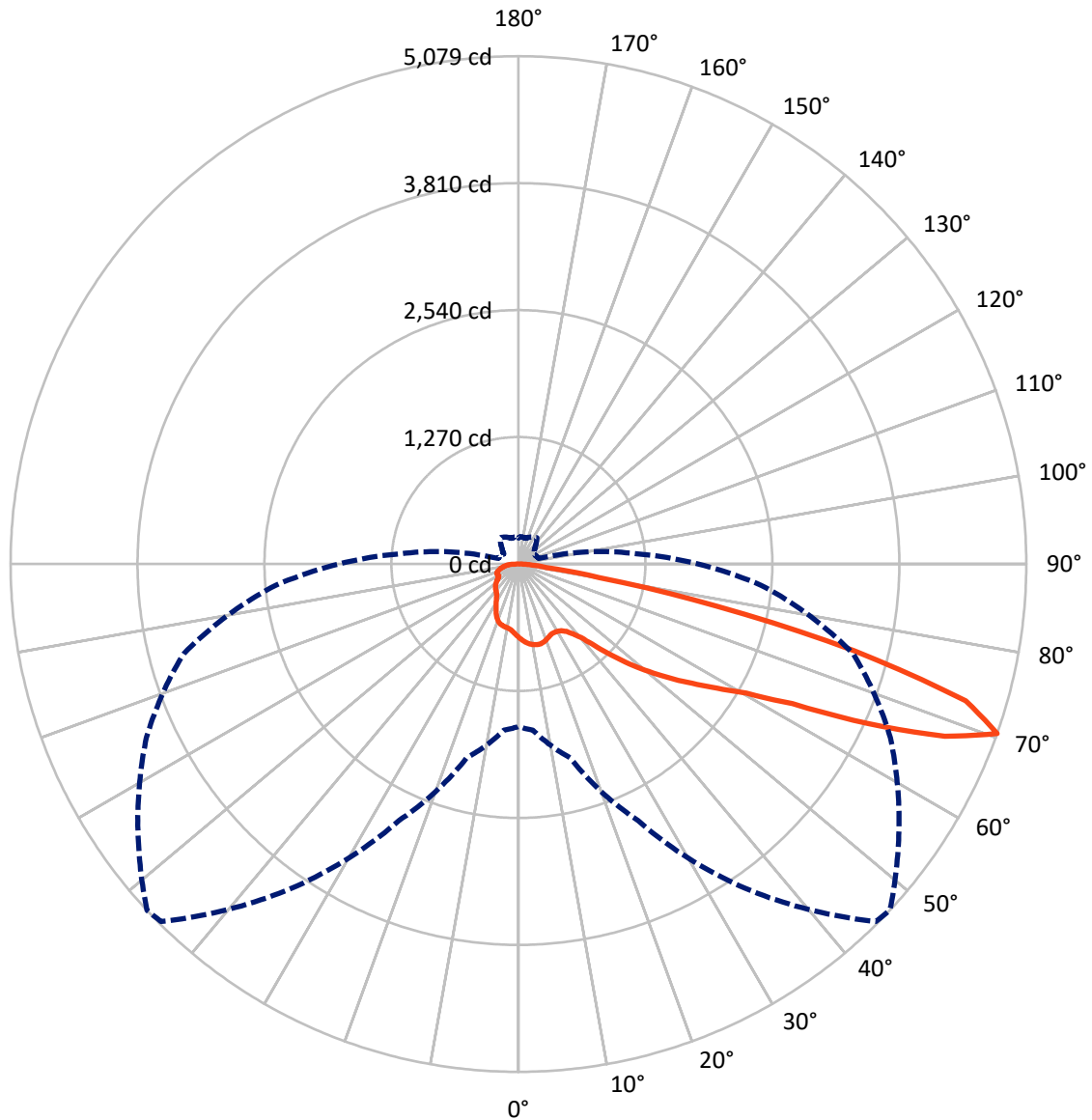
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 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
<b>House Side</b>	Lumens	1320.8	0.0	1320.8
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	5010.3	0.0	5010.3
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	6331.0	0.0	6331.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.4	1.1
10°-20°	206.5	3.3
20°-30°	304.9	4.8
30°-40°	443.2	7.0
40°-50°	797.6	12.6
50°-60°	1381.8	21.8
60°-70°	1972.3	31.2
70°-80°	1012.5	16.0
80°-90°	141.7	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°	6331.0	100.0
0°-180°	6331.0	100.0



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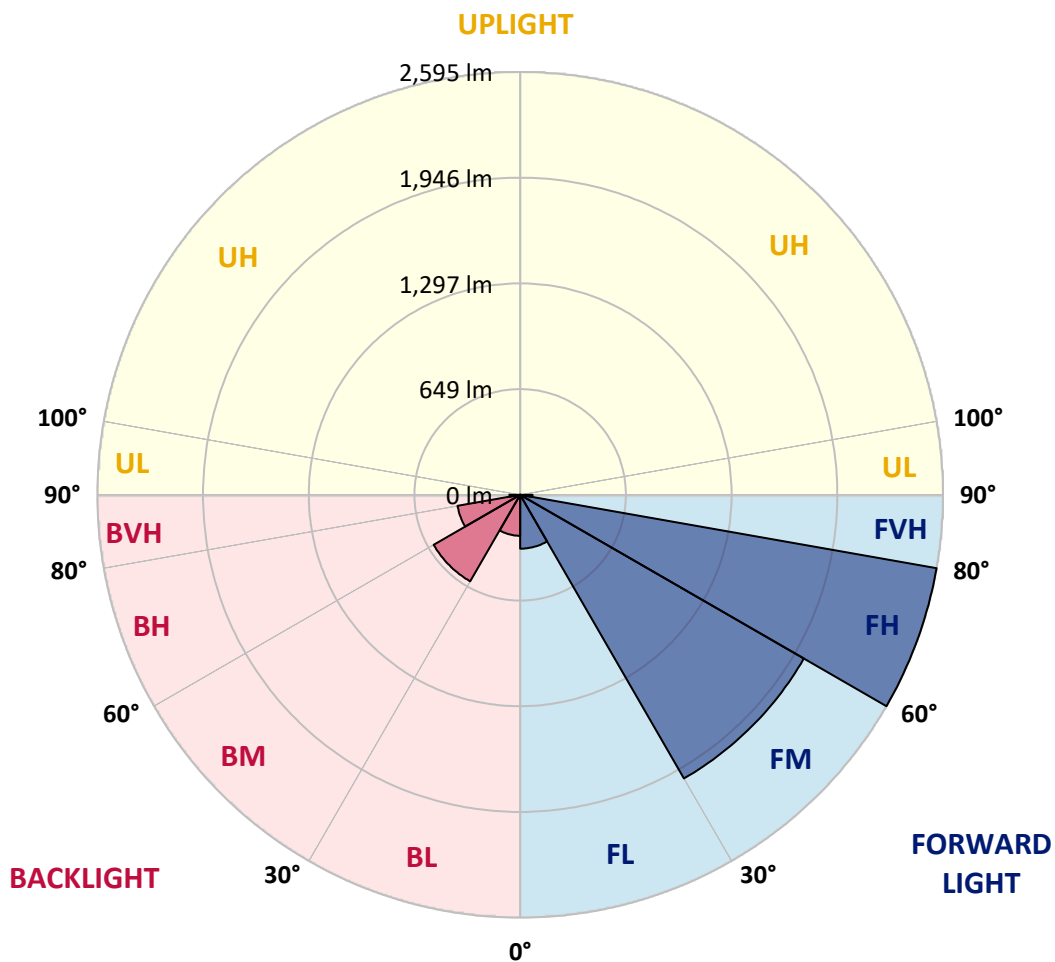
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	330.3	5.2			
FM	(30°-60°)	2009.6	31.7			
FH	(60°-80°)	2594.6	41.0			G2/5000
FVH	(80°-90°)	75.6	1.2			G1/100
BL	(0°-30°)	251.5	4.0	B1/500		
BM	(30°-60°)	613.1	9.7	B1/1000		
BH	(60°-80°)	390.1	6.2	B1/500		G1/500
BVH	(80°-90°)	66.1	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°	734.6	734.6	734.6	734.6	734.6	734.6	734.6	734.6	734.6	734.6	734.6
2.5°	777.7	776.2	775.6	774.4	772.8	765.1	763.5	758.0	750.3	742.3	734.0
5°	828.9	828.6	825.1	819.0	809.2	792.2	788.2	774.7	756.5	738.9	721.4
7.5°	873.8	871.0	864.6	852.2	835.0	811.9	806.4	787.6	762.6	738.6	714.8
10°	906.7	905.2	891.1	874.1	851.6	826.0	819.6	798.6	771.2	740.7	711.2
12.5°	925.6	922.5	906.1	885.9	859.1	834.1	827.6	806.4	775.6	740.7	705.9
15°	924.3	922.2	905.8	883.6	856.6	834.7	828.9	807.6	774.7	737.6	699.2
17.5°	899.7	900.6	886.8	864.9	842.7	826.0	820.8	801.2	768.4	731.5	691.2
20°	856.6	860.9	851.6	832.3	819.9	808.5	805.2	788.5	758.9	722.6	682.5
22.5°	813.5	817.4	813.8	797.4	795.5	788.8	787.0	775.0	750.6	717.1	677.3
25°	781.7	785.4	784.8	770.6	776.2	775.9	774.4	768.4	748.8	717.1	678.2
27.5°	773.1	774.4	773.1	760.2	767.8	774.1	772.8	771.8	754.3	726.0	690.0
30°	802.7	800.9	791.3	765.1	772.2	780.8	779.6	780.2	770.9	749.4	716.2
32.5°	920.7	912.3	882.1	808.5	789.7	794.3	794.9	805.2	806.7	785.4	756.8
35°	1097.1	1087.9	1048.7	925.0	844.2	828.3	828.3	843.6	852.8	837.2	819.9
37.5°	1284.1	1273.9	1253.0	1086.4	958.8	887.1	885.6	896.3	909.5	913.3	917.6
40°	1496.6	1485.8	1491.7	1267.4	1118.7	989.0	967.1	959.4	995.1	1018.9	1053.4
42.5°	1729.2	1724.2	1726.3	1469.2	1300.7	1141.5	1110.4	1070.6	1113.8	1155.9	1228.4
45°	1944.4	1948.7	1946.6	1685.1	1503.4	1327.5	1294.5	1217.5	1259.8	1332.1	1450.1
47.5°	2133.0	2115.1	2142.8	1921.0	1730.4	1535.8	1495.0	1391.9	1434.7	1524.0	1723.6
50°	2361.8	2359.3	2318.7	2235.9	2004.8	1744.8	1691.6	1572.1	1638.6	1762.7	2068.3
52.5°	2602.4	2557.7	2520.4	2480.7	2295.9	1959.3	1893.9	1751.6	1878.2	2034.3	2488.4
55°	2651.6	2631.6	2677.8	2744.7	2576.5	2182.0	2105.8	1976.8	2148.1	2344.9	2972.9
57.5°	2757.0	2756.6	2852.2	2971.4	2865.4	2418.2	2341.4	2248.8	2451.4	2700.6	3487.2
60°	2828.2	2848.1	3025.6	3256.9	3149.1	2691.1	2620.5	2562.6	2796.4	3098.2	3966.5
62.5°	2865.4	2892.5	3134.6	3372.7	3550.0	3145.4	3074.9	2991.4	3252.9	3534.4	4246.8
65°	2710.5	2763.7	3117.6	3472.8	3901.2	3881.8	3850.1	3703.5	3823.6	3879.0	4145.5
67.5°	2281.7	2336.2	2748.4	3379.4	4152.0	4592.1	4598.9	4348.5	4174.8	3908.6	3485.4
70°	1625.7	1668.4	2009.5	2833.4	3961.0	5056.2	5079.4	4645.6	4104.8	3466.3	2435.1
72.5°	771.8	798.0	1120.8	1844.1	3143.2	4632.7	4677.4	4266.2	3490.3	2566.3	1328.4
75°	283.7	291.6	378.8	784.5	1823.1	3416.5	3469.1	3058.2	2313.7	1277.7	506.1
77.5°	170.0	175.2	212.6	331.1	717.1	1952.8	2030.7	1663.2	1011.2	475.6	248.9
80°	118.9	122.5	152.4	206.0	338.8	744.2	813.5	678.8	402.8	301.0	181.1
82.5°	80.4	82.2	107.2	139.2	225.2	265.8	286.7	301.9	271.7	223.9	114.9
85°	52.7	54.5	72.7	91.8	143.2	137.4	140.5	177.7	198.4	152.1	63.7
87.5°	30.2	31.4	43.8	49.0	70.3	58.2	58.8	93.6	126.9	102.6	38.8
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°	734.6	734.6	734.6	734.6	734.6	734.6	734.6	734.6	734.6	734.6	734.6
2.5°	731.8	727.8	718.9	713.3	708.1	706.9	704.7	704.4	704.1	704.1	703.2
5°	715.5	708.7	694.9	687.1	680.7	680.1	679.8	681.3	681.9	682.5	681.6
7.5°	705.0	695.8	678.5	667.5	659.8	657.9	661.0	668.1	672.7	674.5	673.6
10°	698.6	687.1	667.2	655.1	648.7	647.7	651.7	660.1	669.6	673.3	673.0
12.5°	691.2	678.2	656.9	644.4	640.7	642.5	647.7	655.4	665.3	671.2	671.5
15°	683.7	668.7	646.8	635.8	634.2	636.7	641.6	647.4	655.1	661.0	661.6
17.5°	674.8	659.1	637.3	625.8	624.6	625.8	626.1	629.2	634.2	639.8	641.3
20°	665.3	649.3	626.5	615.1	609.6	604.7	599.0	599.7	601.2	606.8	608.0
22.5°	658.5	642.5	618.2	602.4	587.7	572.9	561.8	560.3	560.9	565.5	567.0
25°	659.1	642.2	616.0	588.9	556.6	532.9	518.0	515.6	515.3	518.6	520.9
27.5°	671.2	654.2	624.0	575.0	522.7	487.5	471.9	470.0	467.6	468.5	471.0
30°	698.0	682.2	643.4	560.9	486.0	443.2	426.9	425.0	421.7	420.1	422.0
32.5°	741.6	728.8	671.8	547.3	449.4	405.3	388.7	384.7	382.6	380.7	382.3
35°	814.4	808.8	709.6	532.5	417.1	376.0	361.0	354.9	351.8	355.2	357.6
37.5°	928.3	931.4	759.2	509.4	392.1	356.7	344.0	337.0	332.4	335.1	337.9
40°	1089.7	1091.9	814.1	476.8	370.5	345.2	331.7	325.3	318.8	313.8	313.5
42.5°	1301.6	1279.8	868.0	441.4	345.6	338.2	323.2	315.1	305.2	291.6	288.9
45°	1552.9	1476.3	908.9	400.7	317.5	329.6	313.5	302.5	287.0	272.3	270.8
47.5°	1842.5	1687.3	928.9	358.5	291.3	316.9	301.9	284.3	264.8	257.5	256.6
50°	2196.1	1937.7	938.5	317.5	268.6	300.3	284.9	264.2	248.0	246.4	245.5
52.5°	2598.7	2238.9	941.6	284.0	249.8	278.8	271.1	251.0	238.0	239.4	239.4
55°	3020.1	2550.0	899.7	259.6	232.5	256.6	261.8	245.8	235.0	240.0	241.8
57.5°	3406.8	2825.7	767.8	240.9	216.3	239.7	258.4	250.7	243.4	263.3	264.5
60°	3703.8	2988.6	573.5	223.9	204.2	233.7	267.4	269.5	271.4	319.1	325.6
62.5°	3766.0	2934.4	394.2	210.7	198.7	238.8	283.7	284.0	281.8	315.1	319.1
65°	3480.5	2591.5	286.7	203.3	194.1	247.7	297.6	291.0	276.9	302.2	294.7
67.5°	2764.0	1952.5	238.8	197.7	187.3	247.0	312.3	297.6	274.2	296.0	284.0
70°	1794.2	1180.6	212.6	193.1	179.2	235.3	320.9	297.0	266.1	275.4	261.2
72.5°	875.3	527.9	195.0	186.4	170.9	219.0	320.6	291.3	257.8	257.2	249.5
75°	342.5	241.8	178.9	176.2	156.8	200.5	312.0	283.4	248.0	238.0	235.3
77.5°	200.5	172.5	158.7	161.1	139.8	182.0	299.4	269.5	234.4	222.7	219.6
80°	146.0	129.1	135.2	139.2	119.5	163.6	282.4	252.6	219.3	225.2	220.9
82.5°	93.6	83.2	109.7	113.6	99.5	144.7	263.9	234.7	198.0	179.8	175.5
85°	47.8	52.7	81.6	86.5	76.7	118.9	241.5	211.0	174.0	149.7	152.1
87.5°	26.8	36.0	52.1	58.2	54.2	91.5	195.9	174.0	142.0	115.5	101.7
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)