

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: P269030

Luminaire Tested: **GLEON-AF-01-LED-E1-T3R-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269030  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
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-T3R-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3647.2 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 III - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 34  
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

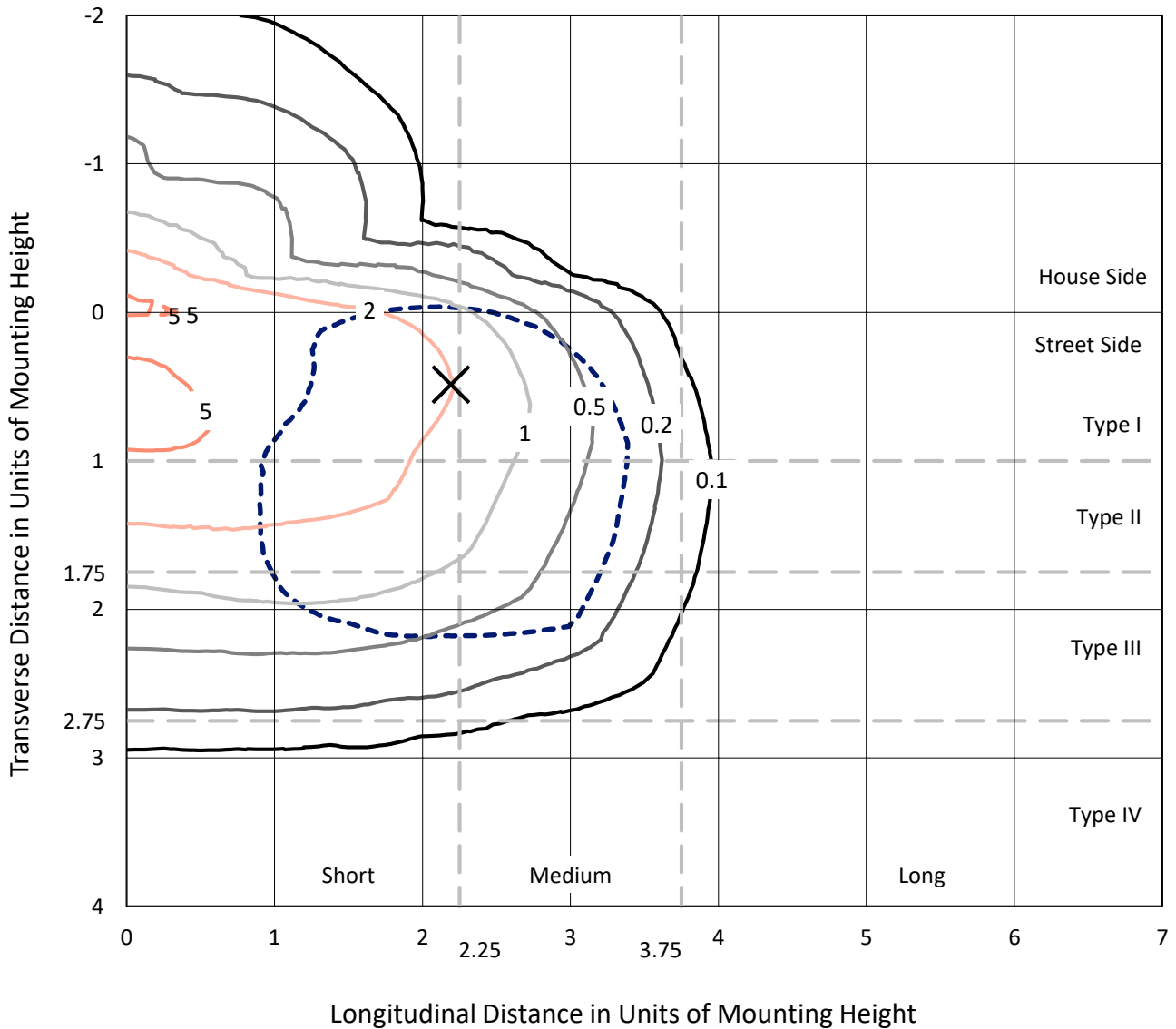


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

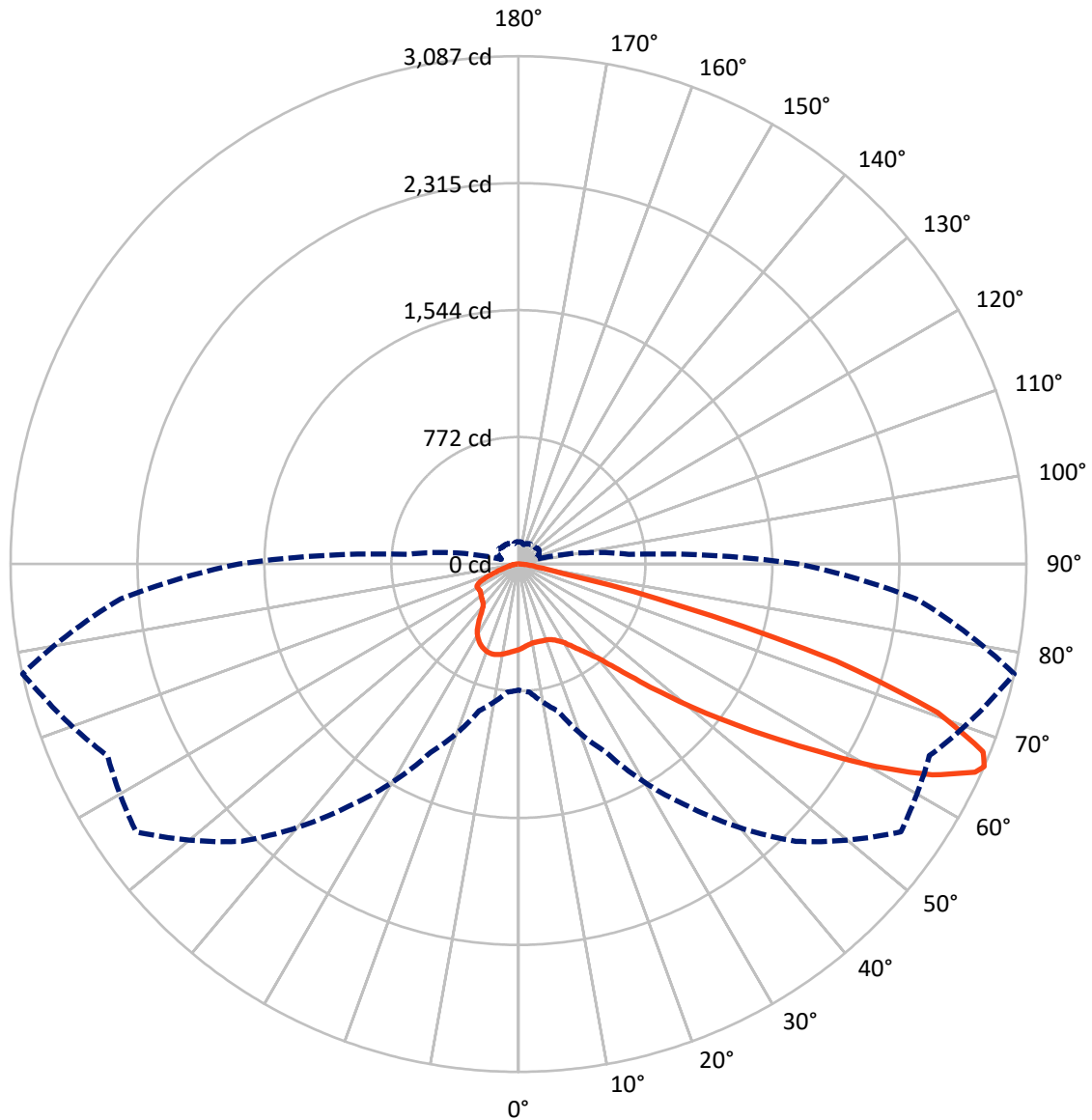


Based on 10 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	623.1	0.0	623.1
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	3024.1	0.0	3024.1
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	3647.2	0.0	3647.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.4	1.3
10°-20°	131.0	3.6
20°-30°	223.6	6.1
30°-40°	357.9	9.8
40°-50°	552.9	15.2
50°-60°	784.2	21.5
60°-70°	1049.1	28.8
70°-80°	455.6	12.5
80°-90°	46.4	1.3
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°	3647.2	100.0
0°-180°	3647.2	100.0



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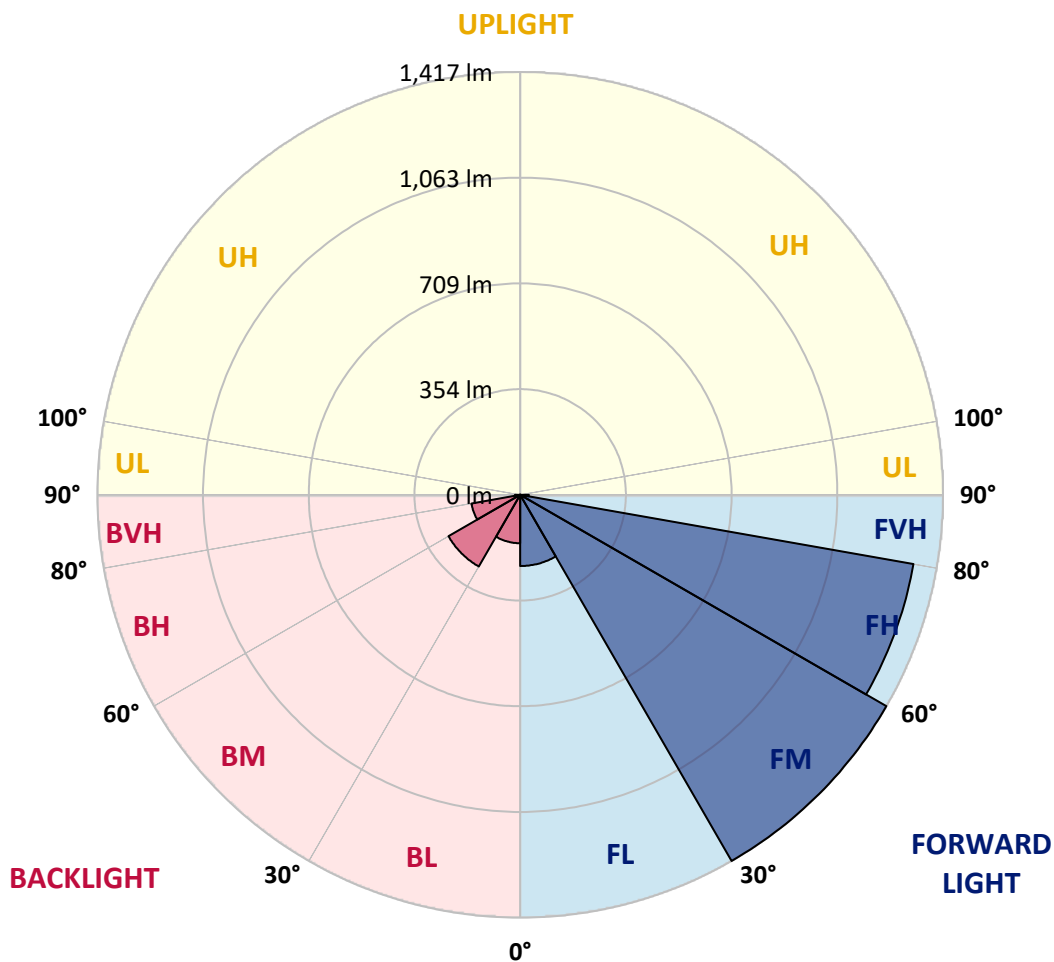
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	238.7	6.5			
FM	(30°-60°)	1417.5	38.9			
FH	(60°-80°)	1338.7	36.7			G1/1800
FVH	(80°-90°)	29.1	0.8			G1/100
BL	(0°-30°)	162.3	4.4	B1/500		
BM	(30°-60°)	277.5	7.6	B1/1000		
BH	(60°-80°)	165.9	4.5	B1/500		G1/500
BVH	(80°-90°)	17.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7
2.5°	459.8	462.8	465.4	467.8	472.7	480.7	489.8	497.1	507.8	509.9	515.5
5°	417.5	417.5	419.6	423.2	429.7	441.6	454.2	470.6	493.9	499.4	514.5
7.5°	397.1	397.2	398.4	401.5	407.2	418.2	431.6	451.2	482.7	491.8	517.7
10°	404.6	402.9	400.4	398.8	399.7	406.0	418.9	440.7	475.8	487.5	524.6
12.5°	447.0	443.8	434.8	422.9	411.6	406.8	414.5	435.7	472.9	486.5	533.8
15°	516.3	514.9	498.2	473.5	446.0	422.9	417.7	433.7	473.1	487.7	544.6
17.5°	603.1	601.2	579.1	543.4	498.4	453.4	429.3	435.3	474.5	489.8	555.1
20°	690.8	685.0	661.2	618.6	560.7	495.0	448.4	439.4	476.0	492.0	566.1
22.5°	756.4	751.5	730.1	688.6	622.0	543.0	474.0	446.2	481.0	498.6	579.6
25°	814.0	814.3	793.1	752.9	684.1	594.0	507.2	464.7	493.7	511.9	598.4
27.5°	885.1	881.0	861.1	821.3	745.6	645.5	547.2	489.9	512.7	531.1	622.7
30°	970.2	967.3	944.4	899.3	813.5	700.9	592.8	519.4	537.1	556.3	654.9
32.5°	1070.3	1069.0	1045.2	987.1	892.1	766.1	646.4	558.3	573.7	593.5	700.9
35°	1187.9	1188.0	1159.9	1090.2	978.2	841.8	707.2	608.5	618.2	638.9	755.7
37.5°	1260.2	1269.0	1258.5	1187.3	1075.5	926.6	786.1	674.9	668.8	689.7	814.5
40°	1275.8	1286.5	1319.7	1283.5	1184.4	1020.0	856.2	738.9	731.2	756.7	890.1
42.5°	1254.0	1268.9	1339.2	1364.6	1300.0	1135.1	950.1	833.8	824.0	858.4	984.2
45°	1241.1	1252.1	1333.4	1406.8	1400.4	1265.3	1070.1	953.1	949.5	994.6	1092.7
47.5°	1218.7	1228.7	1306.9	1416.6	1459.2	1384.5	1213.9	1098.9	1106.1	1164.9	1215.2
50°	1230.8	1234.9	1277.3	1391.7	1476.4	1471.9	1374.6	1267.8	1291.9	1365.6	1353.9
52.5°	1229.1	1239.8	1273.8	1350.7	1478.6	1525.9	1533.0	1456.2	1506.9	1591.4	1507.8
55°	993.6	1013.3	1233.4	1340.5	1486.4	1578.7	1674.0	1654.7	1749.4	1847.9	1681.5
57.5°	948.8	961.2	1083.3	1362.1	1528.6	1679.7	1830.8	1873.1	2031.7	2146.1	1893.2
60°	940.0	955.3	1081.6	1388.6	1613.8	1844.3	2063.2	2137.7	2375.2	2500.3	2138.5
62.5°	912.7	929.1	1071.6	1385.1	1734.9	2071.9	2360.8	2419.0	2700.9	2822.6	2343.9
65°	825.8	841.4	988.7	1329.5	1816.7	2314.9	2713.2	2676.8	2957.9	3049.6	2446.3
66°	766.3	781.5	923.4	1264.0	1797.7	2383.8	2837.8	2756.5	3015.6	3087.2	2426.2
67.5°	657.6	669.4	796.4	1117.4	1696.9	2403.1	2942.8	2816.5	3021.5	3047.0	2312.0
70°	415.5	418.9	517.7	771.4	1284.5	2084.2	2783.0	2667.6	2772.3	2703.8	1938.2
72.5°	180.3	179.0	248.6	392.4	727.2	1398.4	2251.3	2201.1	2174.7	2018.3	1356.7
75°	100.3	101.7	129.0	182.1	295.5	686.9	1472.7	1409.4	1190.0	1015.4	615.2
77.5°	80.5	82.4	107.0	129.3	132.7	239.6	689.1	560.7	337.7	270.8	170.9
80°	63.6	67.1	93.5	100.6	89.4	98.8	222.6	178.0	133.6	122.4	88.6
82.5°	50.3	52.7	80.0	76.1	62.5	66.6	106.7	103.9	86.9	79.1	51.2
85°	36.2	40.7	65.8	57.4	41.1	44.8	70.8	67.9	49.8	40.7	22.5
87.5°	14.8	19.4	46.5	38.1	22.9	20.8	35.4	33.2	23.6	17.2	11.1
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°	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7
2.5°	519.2	523.4	528.7	531.9	533.8	534.9	536.7	536.6	537.1	537.4	538.1
5°	522.6	529.6	537.4	539.4	539.4	537.5	535.6	532.4	531.3	531.0	531.3
7.5°	531.6	539.3	545.9	543.6	538.4	530.8	520.9	512.4	507.7	506.1	505.7
10°	543.0	552.2	555.0	545.8	530.5	512.4	492.9	478.7	470.6	468.3	467.7
12.5°	556.8	565.5	561.6	542.2	514.2	484.7	457.9	435.3	418.4	413.1	412.7
15°	572.0	578.7	565.5	531.6	489.8	446.4	398.4	359.5	338.4	331.7	331.3
17.5°	586.1	589.6	563.1	513.0	453.7	383.4	319.8	289.9	282.6	284.4	284.8
20°	598.1	598.1	555.6	486.3	397.1	300.6	260.4	259.9	265.0	270.2	271.3
22.5°	611.4	603.5	542.2	448.6	316.7	246.0	240.0	244.9	250.7	256.5	257.3
25°	627.7	607.9	523.9	391.3	249.0	223.4	225.6	229.5	232.5	236.1	236.7
27.5°	646.1	613.4	499.5	312.6	216.1	209.2	210.9	212.3	212.0	213.3	213.6
30°	667.9	619.7	466.3	244.3	202.5	197.2	194.0	192.9	192.9	195.1	195.9
32.5°	697.3	629.2	418.6	209.3	195.9	188.6	178.6	174.0	175.8	183.3	185.1
35°	729.5	639.4	353.9	197.4	194.6	184.5	169.1	160.7	160.9	168.1	170.3
37.5°	764.5	652.3	283.1	195.2	197.6	184.7	164.1	152.7	148.0	148.0	148.8
40°	809.6	665.6	229.2	196.8	204.3	186.8	161.4	146.3	133.2	133.6	134.2
42.5°	868.2	677.0	200.2	200.1	212.1	189.5	161.2	137.9	126.5	134.2	141.4
45°	933.2	682.6	187.4	202.9	218.5	191.2	158.6	136.5	127.4	150.5	163.9
47.5°	1008.3	679.3	180.4	204.1	220.1	191.2	155.4	139.7	133.4	174.2	189.9
50°	1090.5	669.9	173.6	201.9	219.5	190.9	158.5	143.0	135.6	178.4	189.3
52.5°	1187.2	662.0	166.2	197.4	216.0	189.1	161.9	141.7	128.5	162.1	169.7
55°	1297.4	664.1	158.2	191.1	210.3	185.4	160.5	136.2	121.1	142.9	147.5
57.5°	1438.5	690.8	148.5	183.1	202.5	179.4	156.3	133.6	118.8	129.5	132.3
60°	1595.7	737.4	136.5	174.9	192.9	169.7	153.0	134.7	120.0	128.5	130.0
62.5°	1711.2	764.5	126.1	163.0	179.8	159.1	148.8	136.4	122.7	132.2	131.8
65°	1742.6	720.0	113.2	145.6	162.0	147.9	143.6	138.0	123.8	135.1	133.6
66°	1698.7	672.1	107.5	137.5	153.0	142.3	141.2	137.9	123.3	135.5	132.9
67.5°	1591.9	573.8	97.7	125.7	138.7	134.0	137.0	136.4	122.0	135.1	131.5
70°	1298.3	391.5	83.6	104.7	115.4	118.0	129.0	130.9	117.5	129.0	121.1
72.5°	907.2	238.5	73.9	81.1	93.5	100.6	118.1	123.2	111.5	112.6	105.1
75°	438.5	126.8	67.1	62.9	72.6	84.1	105.1	112.8	102.0	94.2	91.4
77.5°	136.6	77.3	56.9	50.7	56.9	67.9	87.9	99.0	90.8	79.0	78.0
80°	73.4	56.9	43.7	40.7	44.9	53.3	69.1	82.6	78.1	70.8	63.2
82.5°	48.4	36.9	32.3	31.5	34.2	40.7	51.4	68.5	68.5	60.6	44.0
85°	25.1	22.5	22.2	22.2	24.0	27.0	34.9	52.7	56.1	32.1	26.5
87.5°	12.3	12.9	12.0	12.5	13.5	13.2	16.7	26.5	31.7	19.5	16.2
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)