

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: P200675

Luminaire Tested: **GPC-AF-01-LED-E1-T3R-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200675  
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: GPC-AF-01-LED-E1-T3R-8030-600  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 80 CRI, 3000K, 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: 3494 lumens  
Efficiency: N/A  
Efficacy: 102.8 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

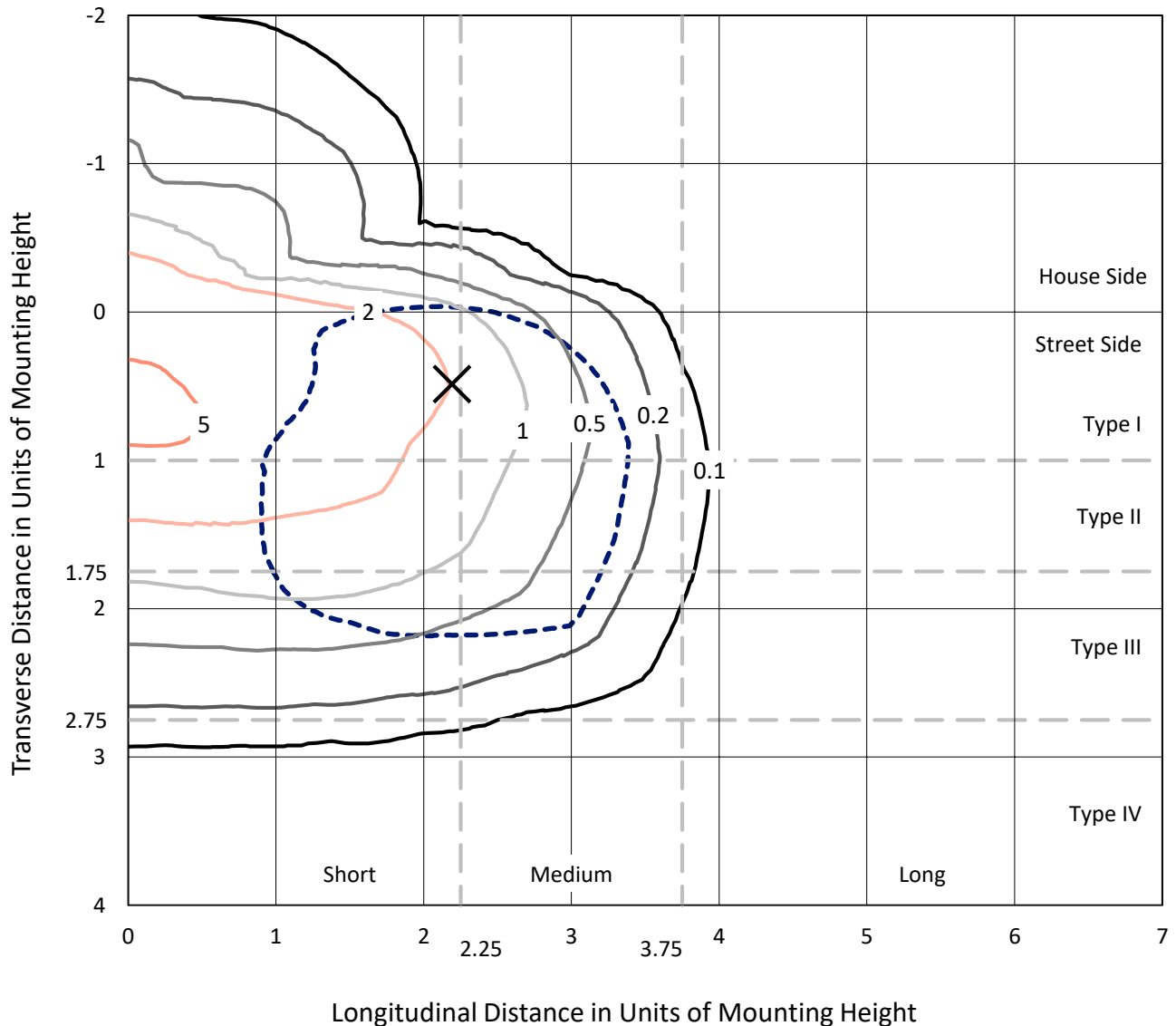
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

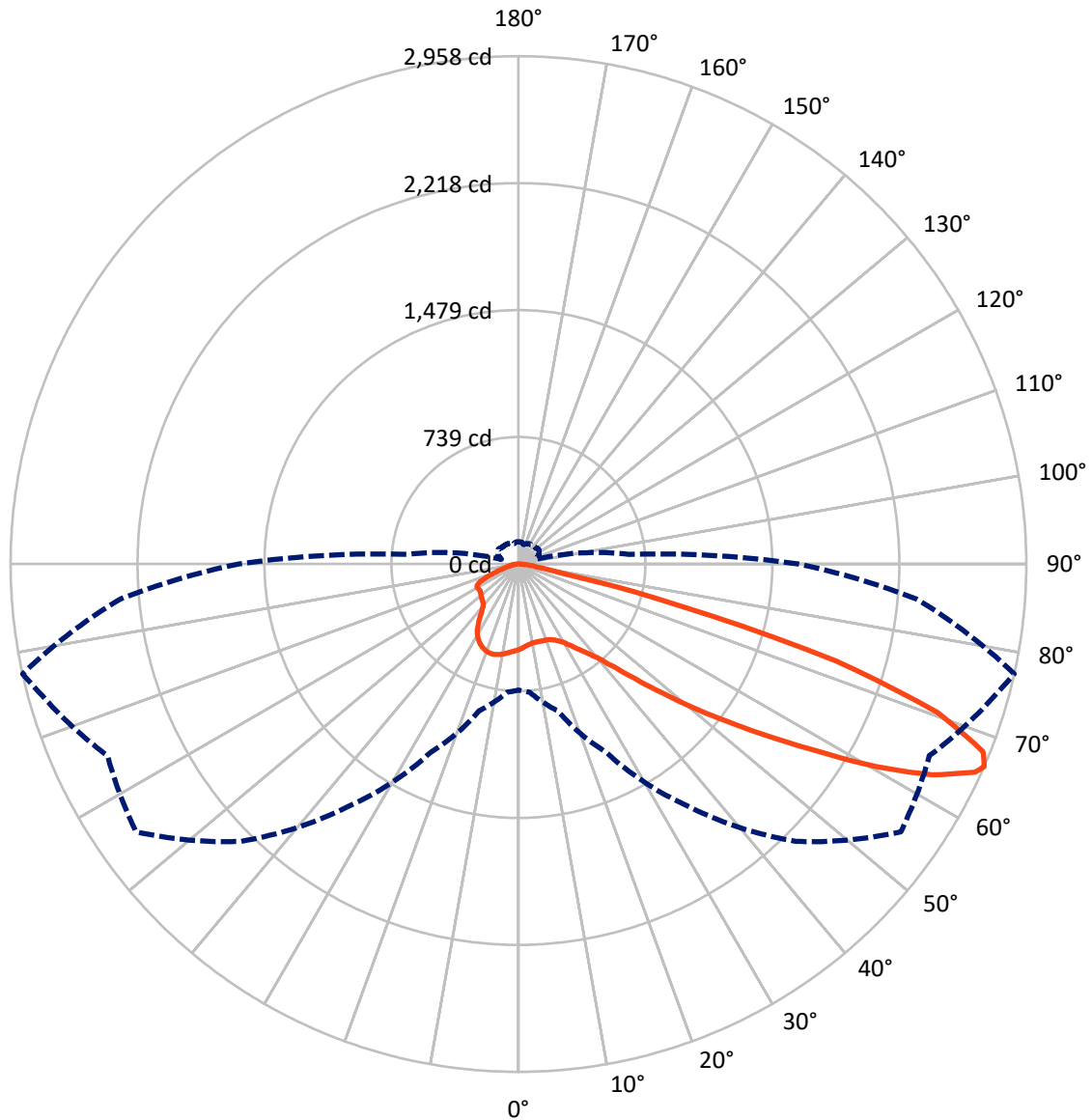
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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	596.9	0.0	596.9
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	2897.1	0.0	2897.1
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	3494.0	0.0	3494.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.5	1.3
10°-20°	125.5	3.6
20°-30°	214.2	6.1
30°-40°	342.9	9.8
40°-50°	529.7	15.2
50°-60°	751.3	21.5
60°-70°	1005.0	28.8
70°-80°	436.5	12.5
80°-90°	44.5	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°	3494.0	100.0
0°-180°	3494.0	100.0



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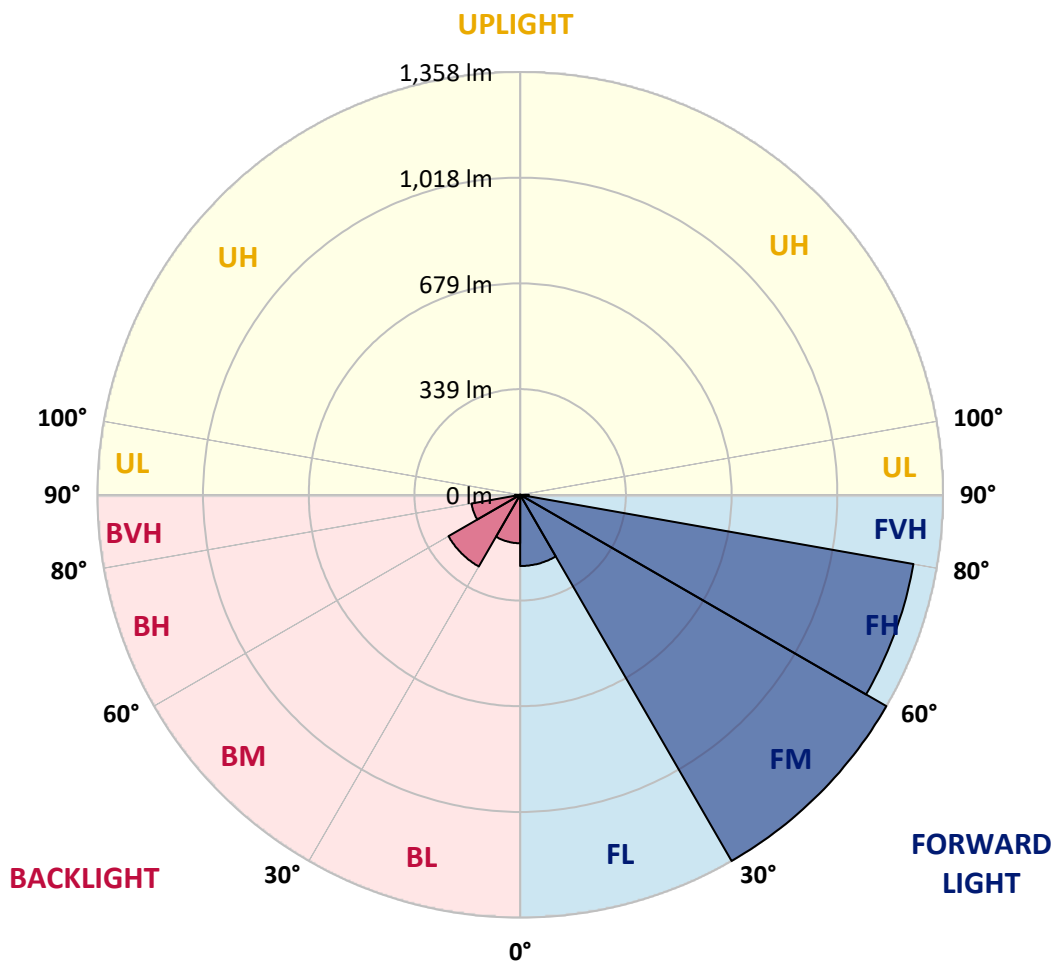
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	228.7	6.5			
FM	(30°-60°)	1357.9	38.9			
FH	(60°-80°)	1282.5	36.7			G1/1800
FVH	(80°-90°)	27.9	0.8			G1/100
BL	(0°-30°)	155.5	4.4	B1/500		
BM	(30°-60°)	265.9	7.6	B1/1000		
BH	(60°-80°)	159.0	4.5	B1/500		G1/500
BVH	(80°-90°)	16.6	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°	497.9	497.9	497.9	497.9	497.9	497.9	497.9	497.9	497.9	497.9	497.9
2.5°	440.5	443.4	445.9	448.2	452.8	460.4	469.2	476.3	486.5	488.5	493.9
5°	400.0	400.0	402.0	405.5	411.7	423.1	435.0	450.9	473.1	478.4	493.0
7.5°	380.4	380.5	381.7	384.7	390.1	400.5	413.6	432.2	462.4	471.2	495.9
10°	387.6	386.0	383.5	382.0	382.8	389.0	401.3	422.1	455.8	467.0	502.5
12.5°	428.2	425.1	416.5	405.1	394.2	389.8	397.0	417.3	453.0	466.0	511.3
15°	494.6	493.3	477.3	453.7	427.3	405.1	400.2	415.5	453.3	467.2	521.7
17.5°	577.8	576.0	554.9	520.5	477.4	434.4	411.2	417.0	454.5	469.2	531.8
20°	661.8	656.2	633.5	592.5	537.2	474.1	429.6	420.8	456.0	471.3	542.3
22.5°	724.6	720.0	699.5	659.7	596.0	520.2	454.2	427.4	460.8	477.6	555.4
25°	779.7	780.1	759.7	721.3	655.4	569.1	485.9	445.1	473.0	490.5	573.2
27.5°	847.9	843.9	825.0	786.8	714.2	618.4	524.2	469.4	491.1	508.8	596.6
30°	929.5	926.7	904.7	861.4	779.4	671.4	567.9	497.6	514.6	532.9	627.3
32.5°	1025.4	1024.1	1001.3	945.6	854.7	733.8	619.3	534.9	549.6	568.6	671.4
35°	1138.0	1138.1	1111.2	1044.4	937.1	806.5	677.5	582.9	592.2	612.0	723.9
37.5°	1207.3	1215.7	1205.7	1137.5	1030.3	887.7	753.1	646.7	640.7	660.7	780.2
40°	1222.2	1232.4	1264.3	1229.6	1134.7	977.2	820.2	707.9	700.5	724.9	852.7
42.5°	1201.4	1215.6	1282.9	1307.3	1245.4	1087.4	910.3	798.9	789.5	822.3	942.8
45°	1189.0	1199.5	1277.5	1347.8	1341.5	1212.1	1025.0	913.1	909.6	952.7	1046.8
47.5°	1167.5	1177.1	1252.0	1357.2	1398.0	1326.3	1162.9	1052.8	1059.5	1116.0	1164.2
50°	1179.1	1183.0	1223.6	1333.3	1414.3	1410.0	1316.9	1214.6	1237.7	1308.2	1297.1
52.5°	1177.4	1187.7	1220.3	1294.0	1416.5	1461.7	1468.6	1395.0	1443.7	1524.6	1444.5
55°	951.9	970.7	1181.5	1284.1	1424.1	1512.4	1603.7	1585.2	1676.0	1770.3	1610.9
57.5°	909.0	920.9	1037.8	1304.9	1464.3	1609.1	1753.9	1794.5	1946.4	2055.9	1813.7
60°	900.6	915.3	1036.3	1330.3	1546.1	1766.8	1976.6	2047.9	2275.4	2395.3	2048.8
62.5°	874.3	890.2	1026.5	1327.0	1662.1	1984.9	2261.7	2317.4	2587.5	2704.0	2245.4
65°	791.1	806.0	947.1	1273.7	1740.4	2217.7	2599.2	2564.3	2833.8	2921.4	2343.5
66°	734.2	748.7	884.6	1210.9	1722.2	2283.7	2718.7	2640.8	2888.9	2957.6	2324.3
67.5°	630.0	641.4	763.0	1070.4	1625.6	2302.2	2819.2	2698.2	2894.7	2919.0	2214.8
70°	398.0	401.3	495.9	738.9	1230.6	1996.6	2666.2	2555.6	2656.0	2590.3	1856.8
72.5°	172.7	171.5	238.1	375.9	696.7	1339.7	2156.7	2108.7	2083.4	1933.5	1299.8
75°	96.1	97.4	123.7	174.5	283.1	658.0	1410.9	1350.1	1139.9	972.7	589.4
77.5°	77.1	78.9	102.5	123.8	127.1	229.5	660.2	537.2	323.4	259.5	163.8
80°	60.9	64.2	89.5	96.4	85.7	94.6	213.3	170.5	127.9	117.4	84.9
82.5°	48.2	50.5	76.8	73.0	59.9	63.7	102.2	99.5	83.2	75.8	49.0
85°	34.7	39.0	63.1	55.0	39.3	42.9	67.9	65.0	47.7	39.0	21.6
87.5°	14.2	18.5	44.6	36.5	22.0	20.0	33.8	31.9	22.6	16.5	10.7
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°	497.9	497.9	497.9	497.9	497.9	497.9	497.9	497.9	497.9	497.9	497.9
2.5°	497.4	501.4	506.5	509.6	511.3	512.4	514.3	514.1	514.6	514.8	515.4
5°	500.7	507.3	514.8	516.7	516.7	514.9	513.1	510.1	509.0	508.6	509.0
7.5°	509.3	516.6	523.0	520.7	515.7	508.5	499.1	490.8	486.4	484.9	484.5
10°	520.2	528.9	531.6	522.8	508.3	490.8	472.2	458.6	450.9	448.7	448.1
12.5°	533.4	541.7	538.0	519.5	492.6	464.4	438.6	417.0	400.8	395.7	395.4
15°	547.9	554.4	541.7	509.3	469.2	427.6	381.7	344.4	324.2	317.8	317.3
17.5°	561.5	564.8	539.5	491.5	434.7	367.3	306.4	277.7	270.7	272.4	272.7
20°	573.0	573.0	532.3	465.9	380.4	287.9	249.5	249.0	253.9	258.9	259.9
22.5°	585.7	578.1	519.5	429.7	303.4	235.6	230.0	234.6	240.2	245.7	246.5
25°	601.4	582.3	501.9	374.9	238.6	214.0	216.1	219.9	222.7	226.2	226.7
27.5°	618.9	587.6	478.6	299.5	207.0	200.4	202.1	203.4	203.1	204.4	204.7
30°	639.9	593.7	446.7	234.1	194.0	188.9	185.9	184.7	184.7	186.9	187.7
32.5°	668.0	602.7	401.0	200.6	187.7	180.6	171.0	166.7	168.4	175.7	177.3
35°	698.8	612.5	339.1	189.2	186.4	176.8	162.0	154.0	154.2	161.0	163.1
37.5°	732.5	624.9	271.2	187.0	189.4	177.0	157.2	146.3	141.8	141.8	142.6
40°	775.6	637.6	219.6	188.5	195.6	179.0	154.7	140.2	127.6	127.9	128.6
42.5°	831.7	648.5	191.8	191.7	203.2	181.6	154.5	132.1	121.2	128.6	135.4
45°	894.1	653.9	179.6	194.5	209.3	183.2	151.9	130.8	122.0	144.1	157.0
47.5°	965.9	650.8	172.8	195.5	210.8	183.2	148.9	133.9	127.8	166.9	181.9
50°	1044.7	641.7	166.2	193.5	210.3	182.9	151.7	137.0	129.9	170.9	181.3
52.5°	1137.3	634.1	159.3	189.2	206.9	181.1	155.0	135.7	123.2	155.3	162.6
55°	1243.0	636.3	151.6	183.1	201.4	177.6	153.9	130.4	116.1	136.9	141.3
57.5°	1378.0	661.8	142.3	175.3	194.0	171.9	149.7	127.9	113.9	124.1	126.8
60°	1528.7	706.4	130.8	167.6	184.7	162.6	146.6	129.1	114.9	123.2	124.5
62.5°	1639.3	732.3	120.8	156.2	172.2	152.4	142.6	130.6	117.5	126.6	126.3
65°	1669.4	689.7	108.5	139.5	155.2	141.6	137.7	132.2	118.7	129.4	127.9
66°	1627.3	643.9	103.0	131.7	146.6	136.4	135.2	132.1	118.2	129.8	127.3
67.5°	1525.1	549.7	93.6	120.4	132.9	128.4	131.2	130.6	116.9	129.4	126.0
70°	1243.8	375.1	80.1	100.2	110.6	113.1	123.7	125.3	112.6	123.7	116.1
72.5°	869.0	228.5	70.8	77.8	89.5	96.4	113.3	118.0	106.8	108.0	100.7
75°	420.0	121.3	64.2	60.3	69.5	80.6	100.7	108.1	97.7	90.3	87.7
77.5°	130.9	74.1	54.5	48.5	54.5	65.0	84.2	94.8	87.0	75.6	74.6
80°	70.3	54.5	41.9	39.0	43.1	51.0	66.2	79.1	74.8	67.9	60.6
82.5°	46.4	35.3	31.0	30.2	32.9	39.0	49.2	65.5	65.5	58.1	42.3
85°	23.9	21.6	21.3	21.3	22.9	25.9	33.5	50.5	53.8	30.7	25.4
87.5°	11.9	12.4	11.6	12.1	12.9	12.7	16.0	25.4	30.4	18.7	15.5
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)