

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: P200037

Luminaire Tested: **GPC-AF-01-LED-E1-T3R-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200037  
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-7030-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5078.4 lumens  
Efficiency: N/A  
Efficacy: 115.4 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 - G2

Input Watts (W): 44  
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

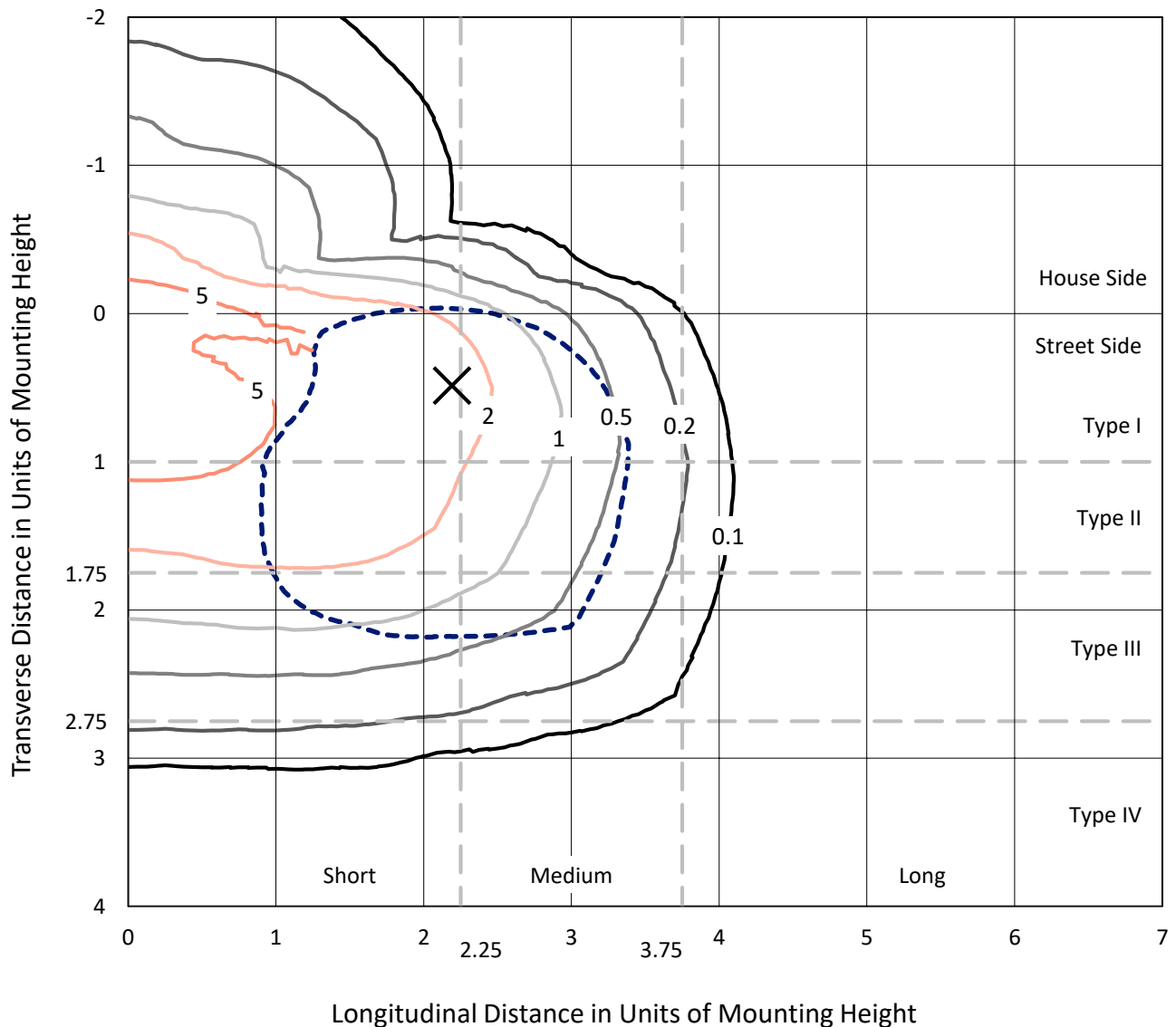


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### Iso-Footcandle Lines of Horizontal Illumination

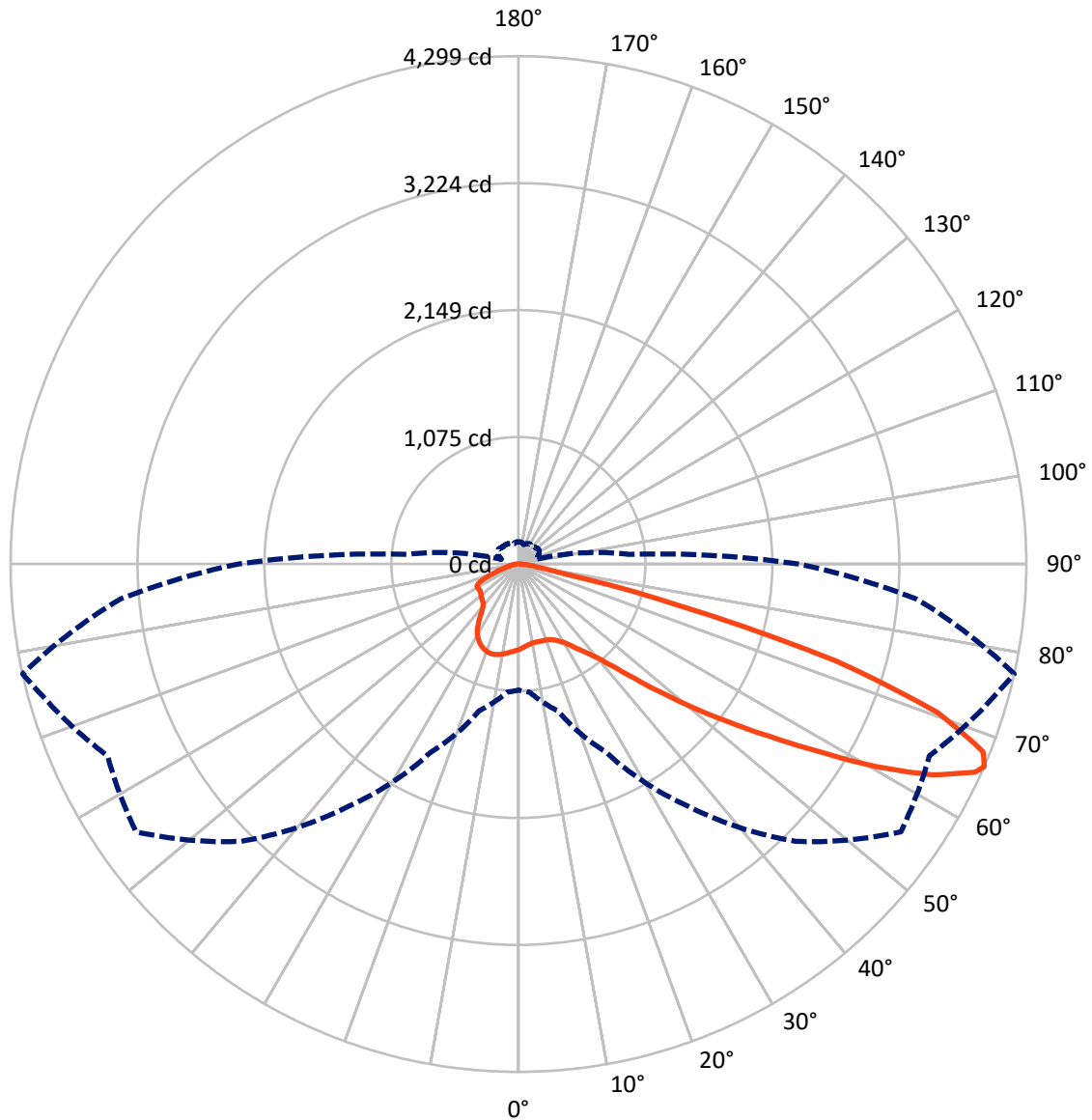
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 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	867.6	0.0	867.6
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	4210.8	0.0	4210.8
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	5078.4	0.0	5078.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.7	1.3
10°-20°	182.4	3.6
20°-30°	311.3	6.1
30°-40°	498.3	9.8
40°-50°	769.9	15.2
50°-60°	1092.0	21.5
60°-70°	1460.8	28.8
70°-80°	634.4	12.5
80°-90°	64.7	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°	5078.4	100.0
0°-180°	5078.4	100.0



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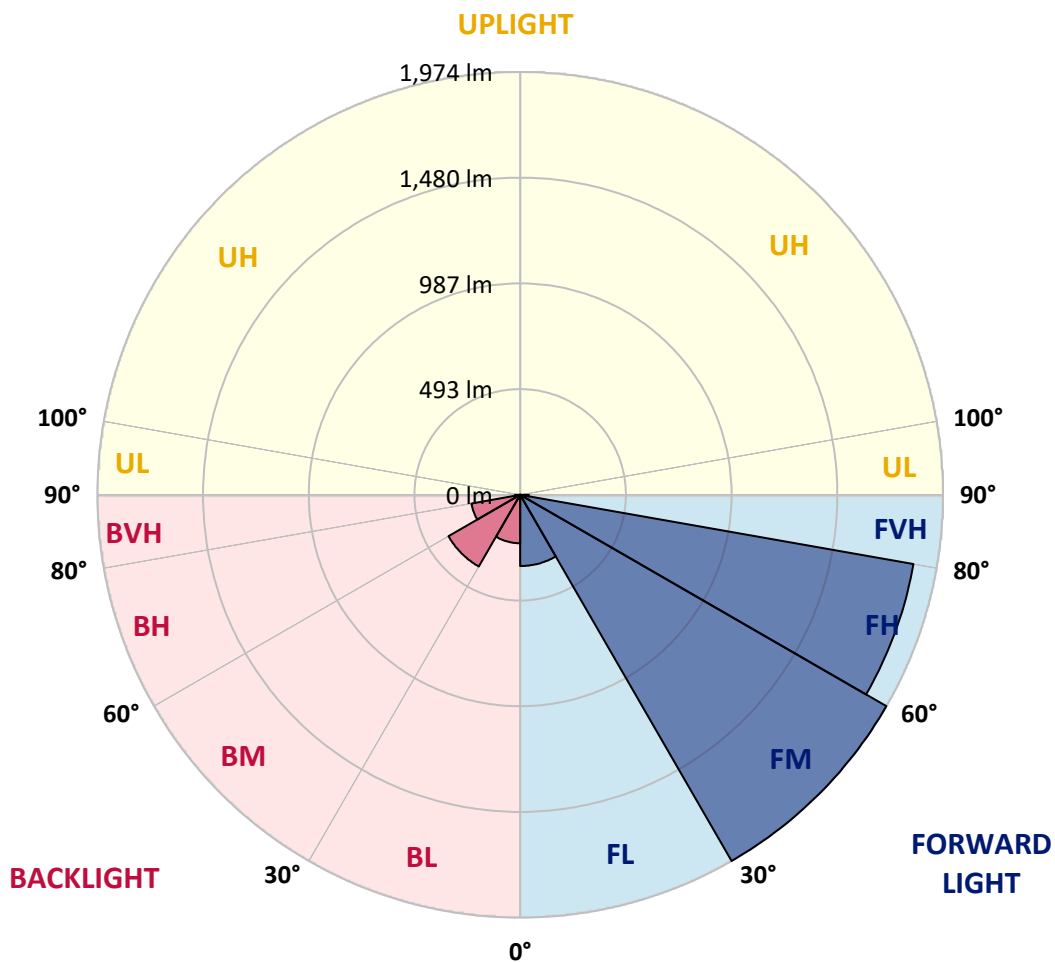
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	332.4	6.5			
FM	(30°-60°)	1973.7	38.9			
FH	(60°-80°)	1864.1	36.7			G2/5000
FVH	(80°-90°)	40.6	0.8			G1/100
BL	(0°-30°)	226.0	4.4	B1/500		
BM	(30°-60°)	386.5	7.6	B1/1000		
BH	(60°-80°)	231.1	4.5	B1/500		G1/500
BVH	(80°-90°)	24.1	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8
2.5°	640.1	644.5	648.1	651.5	658.2	669.2	681.9	692.2	707.1	709.9	718.0
5°	581.4	581.4	584.3	589.4	598.4	615.0	632.3	655.3	687.7	695.3	716.5
7.5°	552.9	553.1	554.8	559.1	567.0	582.2	601.0	628.2	672.1	684.8	720.8
10°	563.4	561.0	557.4	555.2	556.4	565.3	583.3	613.6	662.5	678.8	730.4
12.5°	622.4	617.9	605.4	588.8	572.9	566.5	577.1	606.6	658.4	677.4	743.2
15°	718.9	717.0	693.7	659.4	621.0	588.8	581.6	603.9	659.0	679.0	758.3
17.5°	839.8	837.2	806.5	756.5	693.9	631.3	597.7	606.2	660.6	681.9	772.9
20°	961.9	953.9	920.7	861.2	780.7	689.1	624.3	611.7	662.7	685.0	788.2
22.5°	1053.1	1046.3	1016.6	958.9	866.2	756.1	660.2	621.2	669.6	694.2	807.2
25°	1133.2	1133.8	1104.3	1048.4	952.6	827.1	706.2	647.0	687.5	712.9	833.1
27.5°	1232.3	1226.7	1199.0	1143.6	1038.1	898.8	761.9	682.3	713.9	739.5	867.2
30°	1350.9	1346.8	1314.9	1252.1	1132.8	975.9	825.5	723.2	747.9	774.5	911.8
32.5°	1490.3	1488.4	1455.4	1374.5	1242.3	1066.6	900.1	777.5	798.8	826.4	975.9
35°	1653.9	1654.1	1615.1	1517.9	1361.9	1172.2	984.8	847.3	860.8	889.5	1052.1
37.5°	1754.8	1767.0	1752.4	1653.3	1497.5	1290.3	1094.7	939.8	931.2	960.3	1134.0
40°	1776.3	1791.2	1837.5	1787.2	1649.2	1420.3	1192.1	1028.9	1018.1	1053.6	1239.3
42.5°	1746.1	1766.7	1864.6	1900.1	1810.2	1580.6	1323.1	1161.1	1147.4	1195.2	1370.3
45°	1728.2	1743.4	1856.8	1958.9	1949.8	1761.7	1489.9	1327.2	1322.1	1384.8	1521.6
47.5°	1696.9	1710.9	1819.8	1972.6	2031.9	1927.8	1690.2	1530.1	1540.0	1622.1	1692.1
50°	1713.7	1719.5	1778.5	1937.8	2055.7	2049.3	1914.1	1765.3	1799.0	1901.3	1885.3
52.5°	1711.3	1726.2	1773.8	1880.8	2058.8	2124.5	2134.6	2027.7	2098.4	2216.0	2099.5
55°	1383.5	1410.9	1717.3	1866.3	2069.8	2198.2	2330.9	2304.1	2435.9	2572.9	2341.4
57.5°	1321.2	1338.4	1508.4	1896.5	2128.4	2338.8	2549.2	2608.2	2829.0	2988.1	2636.1
60°	1308.9	1330.3	1506.1	1933.6	2247.1	2567.9	2873.0	2976.5	3307.3	3481.4	2977.8
62.5°	1270.8	1293.8	1492.1	1928.8	2415.8	2884.9	3287.3	3368.3	3760.7	3930.2	3263.6
65°	1149.9	1171.5	1376.5	1851.2	2529.6	3223.2	3777.7	3727.2	4118.7	4246.2	3406.1
66°	1067.0	1088.2	1285.7	1760.0	2503.1	3319.2	3951.5	3838.3	4199.0	4298.7	3378.3
67.5°	915.7	932.2	1109.1	1555.9	2362.8	3346.1	4097.7	3921.8	4207.2	4242.5	3219.3
70°	578.5	583.3	720.8	1074.0	1788.6	2901.9	3875.2	3714.5	3860.3	3764.8	2698.7
72.5°	251.0	249.3	346.1	546.4	1012.7	1947.2	3134.7	3064.9	3028.2	2810.2	1889.1
75°	139.7	141.6	179.7	253.6	411.5	956.4	2050.6	1962.3	1656.8	1413.9	856.6
77.5°	112.1	114.7	149.0	180.0	184.7	333.6	959.6	780.7	470.1	377.2	238.0
80°	88.5	93.3	130.0	140.2	124.5	137.4	310.0	247.9	186.0	170.6	123.4
82.5°	70.0	73.4	111.6	106.1	87.1	92.7	148.5	144.7	121.0	110.2	71.2
85°	50.4	56.6	91.7	79.9	57.2	62.4	98.7	94.5	69.4	56.6	31.4
87.5°	20.6	26.9	64.8	53.0	31.9	29.1	49.1	46.3	32.9	24.0	15.7
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°	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8
2.5°	723.0	728.8	736.2	740.8	743.2	744.8	747.5	747.3	747.9	748.2	749.1
5°	727.7	737.4	748.2	751.0	751.0	748.4	745.8	741.5	739.8	739.2	739.8
7.5°	740.2	750.8	760.1	756.8	749.6	739.0	725.4	713.4	706.9	704.7	704.2
10°	756.1	768.7	772.7	759.9	738.8	713.4	686.2	666.6	655.3	652.2	651.1
12.5°	775.3	787.3	782.0	755.1	715.9	675.0	637.5	606.2	582.6	575.1	574.7
15°	796.4	805.8	787.3	740.2	681.9	621.4	554.8	500.5	471.2	461.9	461.2
17.5°	816.0	820.9	784.2	714.3	631.7	533.8	445.3	403.6	393.6	395.9	396.4
20°	832.9	832.9	773.5	677.2	552.9	418.5	362.5	361.8	369.1	376.3	377.7
22.5°	851.3	840.3	755.1	624.6	441.1	342.4	334.3	341.0	349.1	357.1	358.3
25°	874.2	846.3	729.5	544.8	346.7	311.0	314.1	319.6	323.7	328.8	329.4
27.5°	899.5	854.0	695.7	435.3	300.9	291.2	293.7	295.6	295.1	297.0	297.5
30°	930.1	862.8	649.3	340.3	281.9	274.5	270.2	268.6	268.6	271.6	272.8
32.5°	970.9	876.0	582.8	291.5	272.8	262.6	248.6	242.3	244.7	255.3	257.8
35°	1015.7	890.3	492.9	275.0	270.9	257.0	235.4	223.9	224.1	234.0	237.1
37.5°	1064.6	908.2	394.2	271.8	275.3	257.2	228.5	212.6	206.2	206.2	207.3
40°	1127.3	926.7	319.1	274.0	284.3	260.1	224.8	203.8	185.5	186.0	187.0
42.5°	1208.9	942.6	278.8	278.6	295.3	264.0	224.6	192.0	176.1	187.0	196.7
45°	1299.5	950.4	261.0	282.7	304.3	266.4	220.7	190.0	177.3	209.4	228.3
47.5°	1404.0	945.8	251.2	284.1	306.4	266.4	216.5	194.6	185.7	242.5	264.4
50°	1518.3	932.6	241.7	281.3	305.7	265.8	220.4	199.2	188.8	248.3	263.5
52.5°	1653.0	921.6	231.5	275.0	300.7	263.2	225.3	197.2	178.9	225.8	236.3
55°	1806.6	924.8	220.2	266.1	292.7	258.2	223.7	189.6	168.7	199.0	205.4
57.5°	2002.8	961.9	206.8	254.8	281.9	249.7	217.7	186.0	165.5	180.5	184.3
60°	2221.9	1026.7	190.0	243.5	268.6	236.3	213.0	187.6	167.0	178.9	181.0
62.5°	2382.7	1064.4	175.7	227.0	250.3	221.5	207.3	189.8	170.9	184.0	183.5
65°	2426.4	1002.6	157.7	202.7	225.5	205.9	200.2	192.2	172.5	188.2	186.0
66°	2365.3	935.8	149.6	191.5	213.0	198.2	196.5	192.0	171.7	188.6	184.9
67.5°	2216.7	799.0	136.0	175.0	193.2	186.8	190.7	189.8	169.9	188.2	183.1
70°	1807.8	545.2	116.4	145.7	160.7	164.3	179.7	182.1	163.7	179.7	168.7
72.5°	1263.1	332.0	102.9	113.0	130.0	140.2	164.7	171.5	155.2	156.9	146.4
75°	610.4	176.4	93.3	87.6	101.1	117.1	146.4	157.2	142.0	131.2	127.4
77.5°	190.3	107.7	79.2	70.6	79.2	94.5	122.4	137.7	126.4	110.0	108.5
80°	102.2	79.2	60.9	56.6	62.6	74.2	96.2	114.9	108.7	98.7	88.1
82.5°	67.4	51.4	45.2	43.9	47.7	56.6	71.4	95.3	95.3	84.4	61.4
85°	34.8	31.4	30.9	30.9	33.4	37.7	48.7	73.4	78.2	44.6	36.9
87.5°	17.3	18.0	16.8	17.5	18.7	18.5	23.3	36.9	44.1	27.1	22.5
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)