

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: P270107

Luminaire Tested: **GWC-AF-01-LED-E1-T3R-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270107  
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: GWC-AF-01-LED-E1-T3R-7027-800  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2700K, 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: 4484.6 lumens  
Efficiency: N/A  
Efficacy: 101.9 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

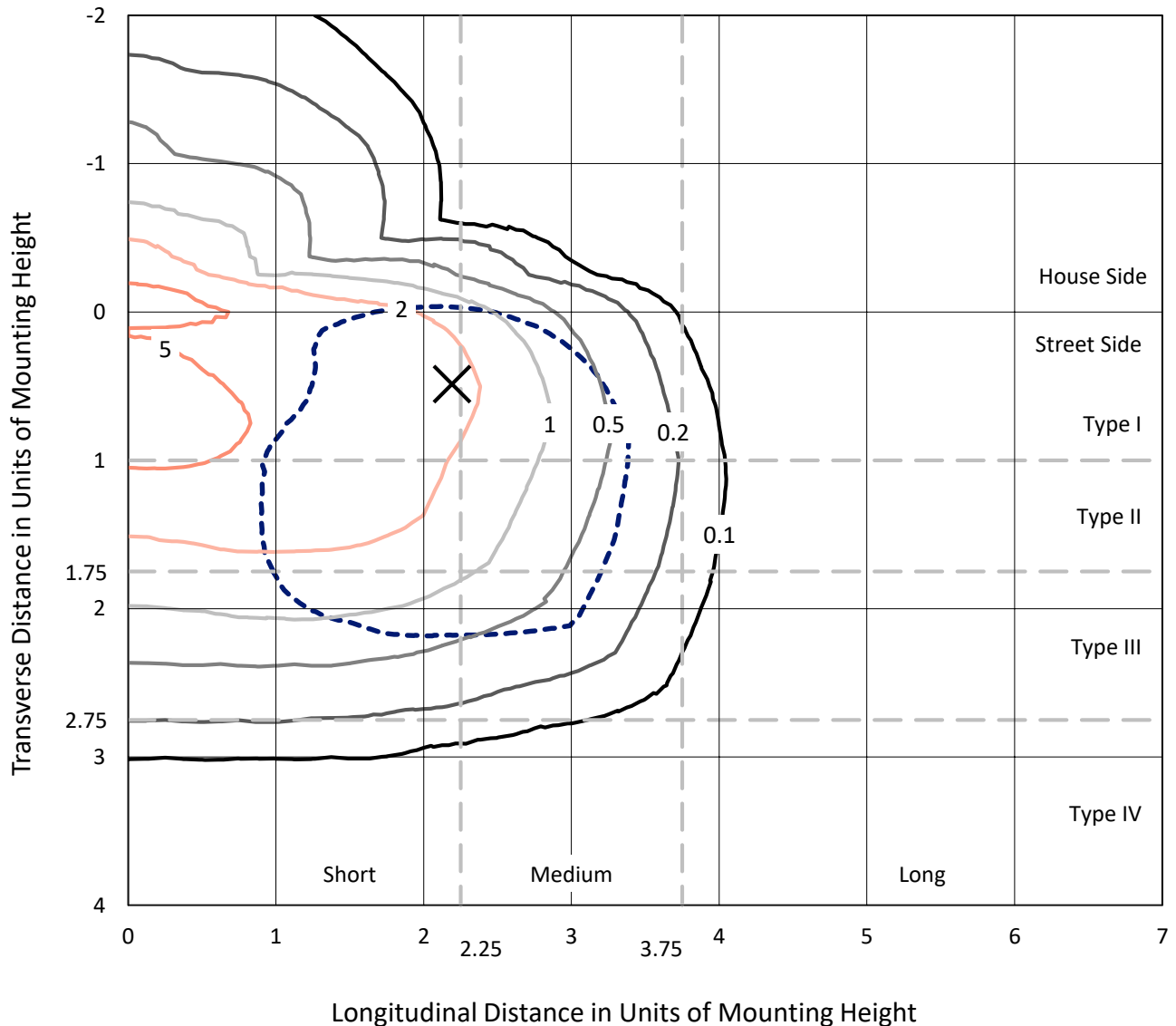
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

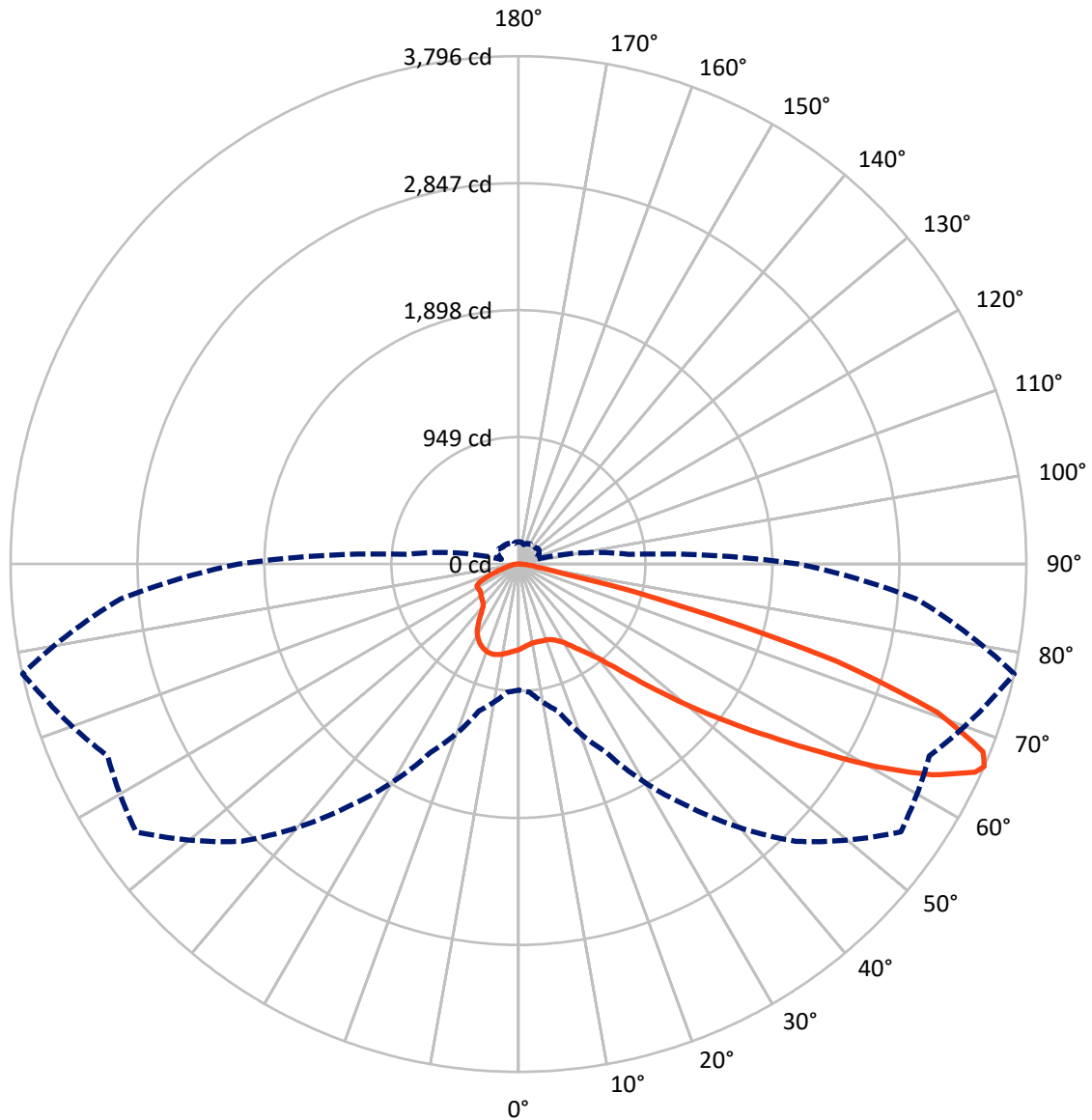
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 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	766.2	0.0	766.2
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	3718.4	0.0	3718.4
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	4484.6	0.0	4484.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.1	1.3
10°-20°	161.1	3.6
20°-30°	274.9	6.1
30°-40°	440.1	9.8
40°-50°	679.9	15.2
50°-60°	964.3	21.5
60°-70°	1290.0	28.8
70°-80°	560.2	12.5
80°-90°	57.1	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°	4484.6	100.0
0°-180°	4484.6	100.0



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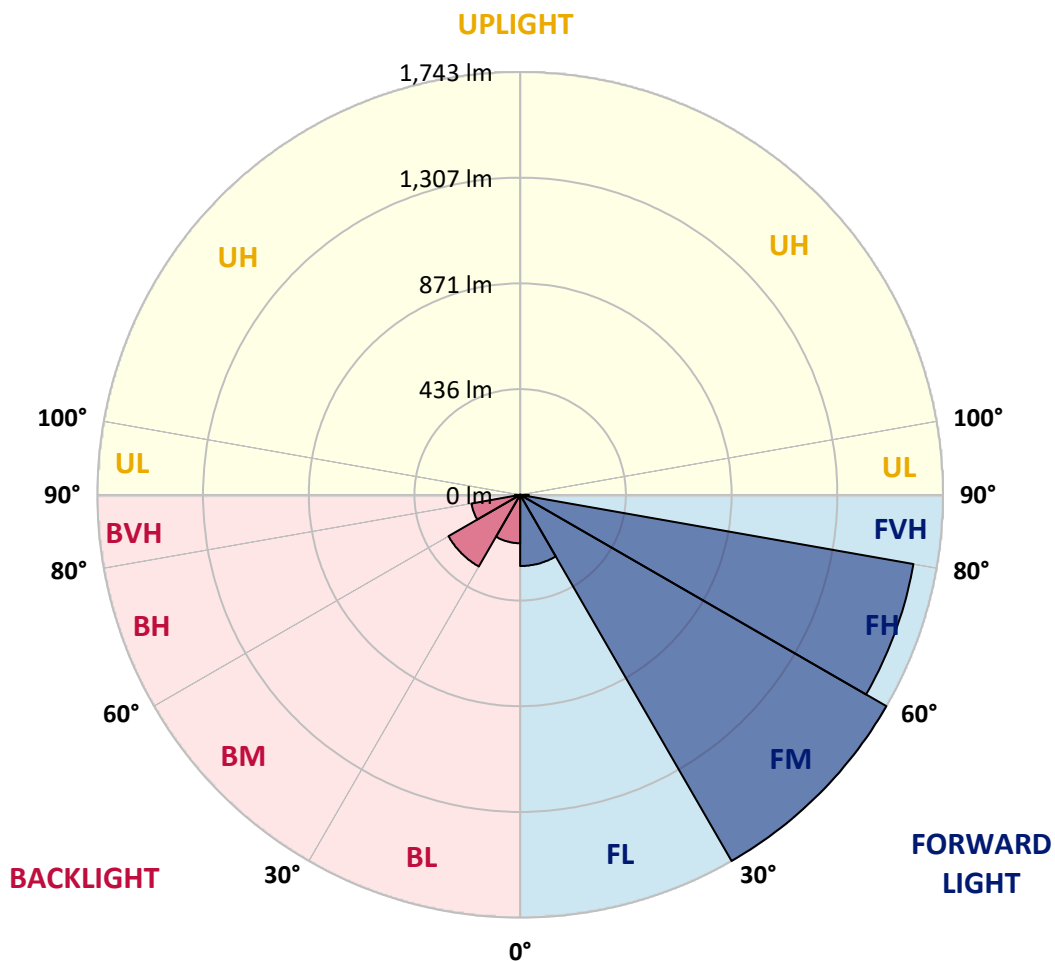
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	293.5	6.5			
FM	(30°-60°)	1742.9	38.9			
FH	(60°-80°)	1646.1	36.7			G1/1800
FVH	(80°-90°)	35.8	0.8			G1/100
BL	(0°-30°)	199.5	4.4	B1/500		
BM	(30°-60°)	341.3	7.6	B1/1000		
BH	(60°-80°)	204.0	4.5	B1/500		G1/500
BVH	(80°-90°)	21.3	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°	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1
2.5°	565.3	569.2	572.3	575.4	581.2	591.0	602.1	611.3	624.4	626.9	634.0
5°	513.4	513.4	516.0	520.5	528.5	543.1	558.4	578.7	607.3	614.0	632.8
7.5°	488.2	488.4	489.9	493.7	500.7	514.1	530.7	554.8	593.5	604.7	636.5
10°	497.6	495.4	492.3	490.3	491.4	499.2	515.1	541.9	585.1	599.4	645.0
12.5°	549.7	545.6	534.6	519.9	505.9	500.3	509.6	535.7	581.4	598.2	656.3
15°	634.8	633.1	612.6	582.3	548.4	519.9	513.6	533.3	581.9	599.6	669.6
17.5°	741.6	739.3	712.2	668.1	612.7	557.5	527.8	535.3	583.4	602.1	682.5
20°	849.4	842.3	813.1	760.5	689.4	608.5	551.3	540.2	585.2	604.9	696.0
22.5°	930.0	924.0	897.8	846.7	764.9	667.7	583.0	548.6	591.4	613.0	712.8
25°	1000.7	1001.3	975.2	925.8	841.3	730.4	623.6	571.3	607.1	629.5	735.7
27.5°	1088.2	1083.3	1058.8	1009.9	916.7	793.7	672.8	602.5	630.4	653.1	765.8
30°	1192.9	1189.4	1161.1	1105.7	1000.4	861.8	729.0	638.6	660.4	684.0	805.2
32.5°	1316.0	1314.4	1285.2	1213.8	1097.0	941.9	794.8	686.6	705.4	729.8	861.8
35°	1460.6	1460.7	1426.2	1340.5	1202.7	1035.1	869.6	748.2	760.1	785.5	929.1
37.5°	1549.7	1560.4	1547.5	1460.0	1322.4	1139.4	966.7	829.9	822.3	848.0	1001.4
40°	1568.6	1581.7	1622.7	1578.2	1456.3	1254.2	1052.7	908.6	899.0	930.4	1094.4
42.5°	1541.9	1560.2	1646.6	1677.9	1598.5	1395.8	1168.4	1025.3	1013.3	1055.4	1210.1
45°	1526.1	1539.6	1639.7	1729.9	1721.9	1555.7	1315.7	1172.0	1167.5	1222.9	1343.7
47.5°	1498.5	1510.9	1607.1	1742.0	1794.4	1702.4	1492.6	1351.2	1359.9	1432.4	1494.2
50°	1513.4	1518.5	1570.6	1711.3	1815.4	1809.7	1690.3	1558.9	1588.7	1679.0	1664.8
52.5°	1511.2	1524.3	1566.4	1660.9	1818.1	1876.1	1885.0	1790.6	1853.0	1956.9	1854.0
55°	1221.8	1245.9	1516.5	1648.1	1827.8	1941.1	2058.4	2034.7	2151.1	2272.1	2067.6
57.5°	1166.7	1181.9	1332.0	1674.8	1879.5	2065.4	2251.2	2303.3	2498.3	2638.8	2327.9
60°	1155.8	1174.8	1330.0	1707.5	1984.4	2267.7	2537.1	2628.5	2920.6	3074.4	2629.6
62.5°	1122.3	1142.6	1317.6	1703.3	2133.4	2547.6	2903.0	2974.5	3321.0	3470.7	2882.0
65°	1015.4	1034.5	1215.6	1634.7	2233.8	2846.4	3336.0	3291.4	3637.1	3749.7	3007.9
66°	942.2	961.0	1135.4	1554.2	2210.5	2931.1	3489.5	3389.5	3708.0	3796.1	2983.3
67.5°	808.7	823.2	979.4	1374.0	2086.6	2954.9	3618.6	3463.2	3715.3	3746.5	2842.9
70°	510.9	515.1	636.5	948.4	1579.5	2562.6	3422.1	3280.2	3409.0	3324.6	2383.2
72.5°	221.6	220.2	305.6	482.5	894.3	1719.5	2768.2	2706.6	2674.2	2481.7	1668.2
75°	123.3	125.0	158.7	223.9	363.4	844.6	1810.8	1732.8	1463.1	1248.6	756.5
77.5°	99.0	101.3	131.6	158.9	163.1	294.6	847.4	689.4	415.1	333.1	210.2
80°	78.2	82.4	114.8	123.8	110.0	121.4	273.7	218.9	164.2	150.6	109.0
82.5°	61.8	64.9	98.5	93.7	76.9	81.8	131.2	127.7	106.8	97.3	62.9
85°	44.5	49.9	80.9	70.5	50.5	55.1	87.1	83.5	61.3	49.9	27.8
87.5°	18.2	23.7	57.2	46.8	28.2	25.7	43.4	40.9	29.0	21.2	13.8
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°	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1
2.5°	638.4	643.5	650.1	654.1	656.3	657.7	660.1	659.9	660.4	660.7	661.5
5°	642.6	651.2	660.7	663.2	663.2	660.9	658.6	654.8	653.3	652.8	653.3
7.5°	653.7	663.0	671.2	668.3	662.0	652.6	640.6	630.0	624.2	622.3	621.9
10°	667.7	678.8	682.4	671.0	652.4	630.0	606.0	588.7	578.7	575.9	575.0
12.5°	684.7	695.3	690.5	666.8	632.2	596.1	563.0	535.3	514.5	507.9	507.5
15°	703.3	711.5	695.3	653.7	602.1	548.8	489.9	442.0	416.1	407.9	407.3
17.5°	720.6	724.9	692.5	630.8	557.8	471.4	393.3	356.4	347.6	349.6	350.1
20°	735.5	735.5	683.1	598.0	488.2	369.6	320.2	319.5	325.9	332.3	333.5
22.5°	751.8	742.1	666.8	551.6	389.5	302.4	295.2	301.1	308.3	315.3	316.4
25°	772.0	747.4	644.2	481.1	306.1	274.6	277.4	282.2	285.8	290.3	290.9
27.5°	794.4	754.1	614.4	384.4	265.7	257.2	259.3	261.0	260.6	262.3	262.8
30°	821.3	761.9	573.4	300.5	248.9	242.4	238.6	237.2	237.2	239.8	240.9
32.5°	857.3	773.6	514.6	257.5	240.9	231.9	219.5	214.0	216.1	225.5	227.6
35°	897.0	786.2	435.2	242.8	239.2	226.9	207.9	197.7	197.9	206.6	209.4
37.5°	940.2	802.0	348.1	240.0	243.1	227.1	201.8	187.7	182.1	182.1	183.1
40°	995.5	818.4	281.8	242.0	251.1	229.7	198.5	179.9	163.9	164.2	165.1
42.5°	1067.5	832.4	246.2	246.0	260.8	233.1	198.3	169.5	155.5	165.1	173.7
45°	1147.6	839.3	230.5	249.6	268.7	235.3	194.9	167.8	156.6	185.0	201.6
47.5°	1239.8	835.2	221.8	250.9	270.6	235.3	191.2	171.8	164.0	214.2	233.5
50°	1340.8	823.6	213.4	248.4	269.9	234.7	194.7	175.9	166.7	219.3	232.7
52.5°	1459.7	813.9	204.5	242.8	265.5	232.4	199.0	174.2	158.0	199.4	208.7
55°	1595.4	816.6	194.5	235.0	258.4	228.0	197.5	167.4	148.9	175.7	181.4
57.5°	1768.7	849.4	182.6	225.0	248.9	220.5	192.2	164.2	146.2	159.4	162.8
60°	1962.1	906.7	167.8	215.1	237.2	208.7	188.1	165.6	147.5	158.0	159.8
62.5°	2104.1	940.0	155.1	200.5	221.1	195.6	183.1	167.6	150.9	162.5	162.1
65°	2142.7	885.4	139.2	179.0	199.2	181.8	176.8	169.7	152.4	166.2	164.2
66°	2088.7	826.4	132.1	169.2	188.1	175.0	173.6	169.5	151.6	166.5	163.3
67.5°	1957.5	705.6	120.1	154.5	170.6	164.9	168.4	167.6	150.0	166.2	161.7
70°	1596.5	481.5	102.8	128.6	141.9	145.1	158.7	160.8	144.5	158.7	148.9
72.5°	1115.4	293.2	90.9	99.8	114.8	123.8	145.4	151.5	137.1	138.5	129.3
75°	539.1	155.8	82.4	77.3	89.3	103.4	129.3	138.8	125.4	115.9	112.5
77.5°	168.1	95.1	70.0	62.3	70.0	83.5	108.1	121.6	111.7	97.1	95.8
80°	90.3	70.0	53.8	49.9	55.2	65.5	85.0	101.5	96.0	87.1	77.8
82.5°	59.6	45.4	39.9	38.8	42.1	49.9	63.1	84.2	84.2	74.6	54.3
85°	30.7	27.8	27.3	27.3	29.5	33.3	43.0	64.9	69.1	39.3	32.6
87.5°	15.3	15.9	14.8	15.5	16.5	16.3	20.6	32.6	39.0	23.9	19.9
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)