

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: P199990

Luminaire Tested: **GWC-AF-02-LED-E1-SL4-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199990  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-02-LED-E1-SL4-7030-800  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9223.7 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G3

Input Watts (W): 86  
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

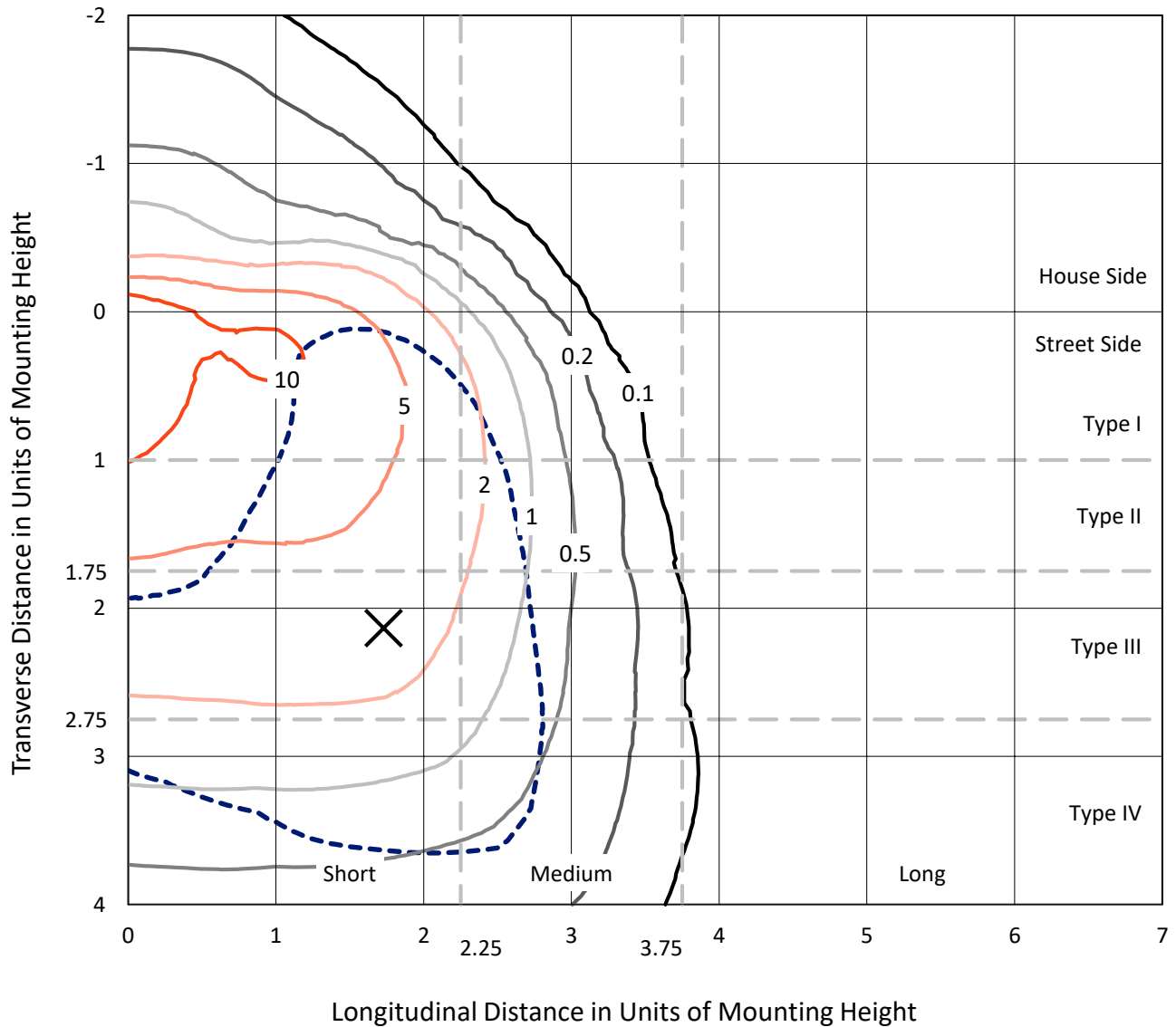


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### Iso-Footcandle Lines of Horizontal Illumination

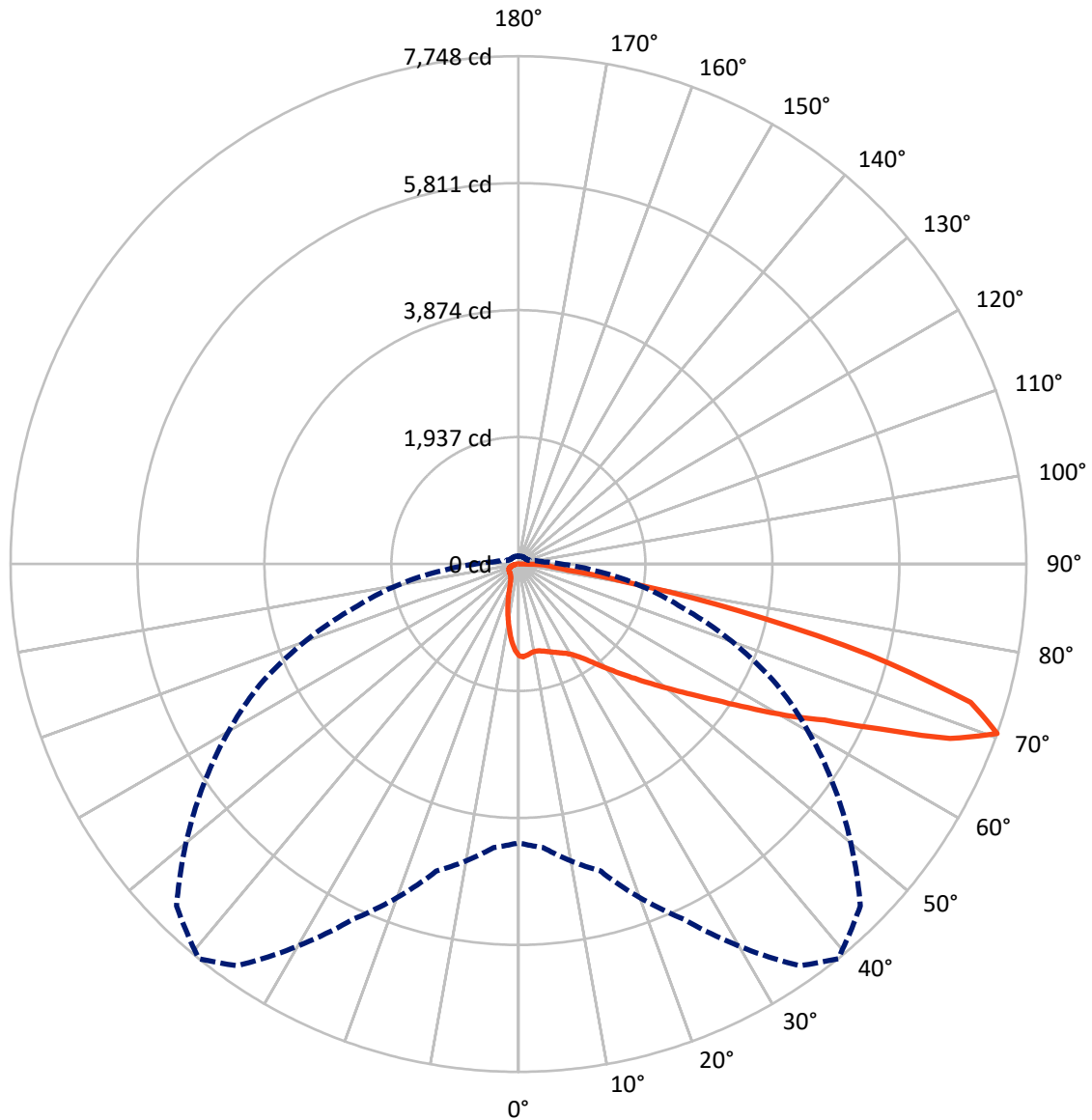
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1049.0	0.0	1049.0
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	8174.6	0.0	8174.6
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	9223.7	0.0	9223.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.2	1.3
10°-20°	300.4	3.3
20°-30°	467.7	5.1
30°-40°	728.6	7.9
40°-50°	1223.2	13.3
50°-60°	1943.1	21.1
60°-70°	2591.9	28.1
70°-80°	1565.2	17.0
80°-90°	283.3	3.1
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°	9223.7	100.0
0°-180°	9223.7	100.0



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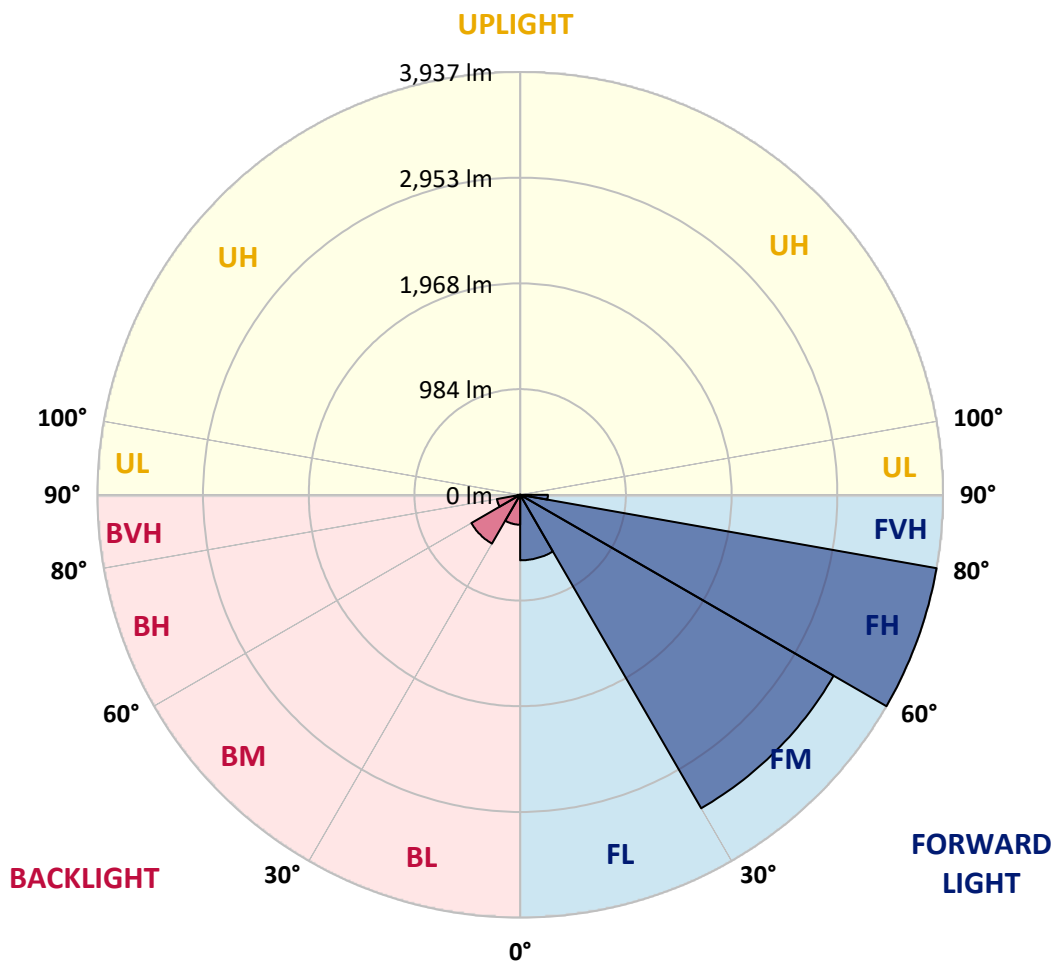
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.0	6.6			
FM (30°-60°)	3370.0	36.5			
FH (60°-80°)	3936.9	42.7			G2/5000
FVH (80°-90°)	257.8	2.8			G3/500
BL (0°-30°)	278.3	3.0	B1/500		
BM (30°-60°)	525.0	5.7	B1/1000		
BH (60°-80°)	220.2	2.4	B1/500		G1/500
BVH (80°-90°)	25.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2
2.5°	1427.5	1427.0	1423.3	1420.5	1418.0	1417.2	1419.1	1412.0	1405.9	1398.4	1390.5
5°	1416.6	1416.2	1410.1	1404.5	1398.8	1397.0	1396.6	1383.9	1376.3	1365.0	1350.1
7.5°	1405.0	1402.7	1394.7	1385.3	1375.5	1370.7	1366.1	1349.7	1341.1	1329.9	1312.6
10°	1392.8	1390.0	1382.4	1373.1	1363.7	1356.7	1348.7	1332.8	1323.9	1315.4	1295.3
12.5°	1380.2	1377.8	1375.9	1371.6	1365.0	1359.0	1352.9	1339.3	1329.9	1320.1	1296.7
15°	1378.3	1377.3	1381.6	1384.4	1380.6	1376.8	1370.3	1358.5	1348.7	1338.9	1308.4
17.5°	1393.3	1392.8	1403.6	1411.1	1409.2	1402.7	1393.7	1380.6	1372.7	1364.2	1326.2
20°	1426.1	1428.4	1441.5	1451.4	1442.0	1432.6	1418.0	1399.8	1395.6	1391.9	1344.6
22.5°	1488.0	1490.3	1499.7	1503.5	1479.1	1465.5	1445.3	1421.9	1419.1	1421.9	1366.5
25°	1584.6	1582.3	1580.9	1566.8	1522.2	1501.1	1475.3	1451.0	1452.4	1465.0	1397.5
27.5°	1712.6	1700.0	1680.3	1638.1	1567.3	1543.9	1512.3	1489.9	1498.8	1523.2	1443.9
30°	1845.3	1831.3	1785.8	1716.8	1626.4	1600.5	1565.3	1540.0	1563.5	1602.0	1505.8
32.5°	1968.2	1966.3	1899.7	1811.1	1707.9	1685.5	1650.3	1621.6	1659.6	1718.2	1598.7
35°	2102.3	2106.5	2026.9	1920.3	1818.2	1794.7	1769.4	1747.8	1798.4	1879.2	1733.3
37.5°	2245.9	2254.2	2159.9	2040.0	1943.8	1934.0	1918.9	1909.7	1987.9	2099.5	1921.4
40°	2437.6	2429.2	2298.4	2175.1	2098.1	2097.7	2093.0	2104.3	2234.6	2387.5	2162.8
42.5°	2643.0	2618.2	2445.1	2319.9	2267.3	2283.3	2292.7	2338.7	2531.4	2737.3	2457.3
45°	2864.3	2808.5	2597.5	2473.3	2455.5	2489.3	2521.0	2621.0	2880.7	3135.4	2780.0
47.5°	3041.1	2987.2	2755.1	2634.1	2673.0	2724.2	2785.6	2943.7	3271.9	3546.7	3098.4
50°	3180.4	3145.2	2914.1	2821.7	2912.7	2991.4	3091.8	3308.9	3679.0	3947.2	3393.4
52.5°	3315.5	3289.2	3074.4	3013.9	3194.0	3302.8	3439.3	3700.9	4096.3	4341.1	3641.4
55°	3437.4	3418.7	3247.0	3253.6	3525.1	3666.7	3838.4	4147.4	4551.2	4692.3	3851.5
57.5°	3574.9	3550.9	3444.0	3554.2	3950.5	4134.3	4357.5	4649.2	4978.0	5004.6	4011.5
60°	3713.1	3692.5	3662.5	3901.2	4490.7	4684.0	4895.4	5135.5	5410.7	5247.1	4002.0
62.5°	3833.3	3835.5	3888.5	4265.6	5019.7	5243.4	5501.3	5738.7	5802.3	5289.3	3706.2
65°	4036.8	4073.8	4231.8	4781.4	5764.4	6063.6	6380.0	6342.2	5910.7	4895.0	3071.6
67.5°	4278.7	4343.9	4664.2	5469.0	6705.6	7102.7	7225.2	6478.6	5476.9	3979.1	2189.5
70°	4254.3	4343.9	4850.9	5981.5	7481.2	7747.6	7376.2	5863.3	4349.1	2599.4	1162.9
72.5°	3777.8	3905.9	4470.6	5746.6	7236.9	7213.4	6403.5	4371.1	2584.0	1043.9	454.4
75°	2879.4	3008.8	3494.6	4539.9	5719.8	5522.8	4543.6	2414.6	980.6	414.5	286.5
77.5°	1656.4	1756.7	2131.8	2784.2	3628.7	3426.7	2529.1	1073.9	477.4	288.9	223.7
80°	924.8	980.6	1208.5	1412.5	1778.3	1630.0	1131.6	667.3	356.4	209.7	172.5
82.5°	731.1	780.7	977.4	891.0	812.3	749.4	650.0	594.2	284.6	132.2	103.1
85°	638.7	686.0	827.2	701.6	554.8	508.8	528.0	584.7	221.4	79.8	88.2
87.5°	591.8	655.1	737.2	540.8	431.9	382.6	487.3	641.1	71.2	49.7	35.6
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°	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2
2.5°	1383.4	1375.9	1363.7	1352.9	1336.0	1327.2	1317.3	1310.2	1304.7	1299.9	1307.4
5°	1340.7	1326.6	1300.8	1273.2	1240.4	1214.6	1193.0	1172.9	1158.8	1149.4	1156.0
7.5°	1300.4	1277.5	1237.2	1186.9	1130.7	1082.9	1043.4	1008.7	984.8	969.3	975.4
10°	1277.5	1248.9	1186.4	1107.7	1024.7	950.1	888.2	834.7	797.7	776.7	779.9
12.5°	1271.8	1234.7	1148.5	1040.1	926.6	823.0	735.8	661.7	609.6	582.5	583.3
15°	1276.0	1228.6	1112.8	975.4	831.9	701.1	592.3	502.3	441.7	410.9	410.4
17.5°	1283.0	1223.9	1075.3	905.5	735.8	583.9	462.3	374.2	320.7	295.9	294.0
20°	1290.6	1216.5	1033.1	830.1	635.9	475.1	362.0	293.2	259.4	245.8	244.7
22.5°	1301.4	1209.9	989.5	750.3	537.9	386.9	297.7	251.4	233.5	226.5	225.6
25°	1318.6	1206.7	943.0	667.3	449.7	323.6	259.4	230.7	220.3	215.7	215.2
27.5°	1347.8	1211.3	899.4	586.6	377.9	280.9	237.7	220.3	212.9	208.6	208.2
30°	1385.3	1225.9	853.6	510.2	322.2	251.9	224.6	213.4	207.3	203.0	203.0
32.5°	1447.6	1250.3	805.2	444.1	282.3	231.6	214.8	207.3	202.1	198.9	198.5
35°	1539.6	1296.2	760.2	389.2	253.7	217.1	206.4	200.7	197.0	195.1	195.1
37.5°	1673.2	1368.9	720.3	349.8	236.3	207.3	198.5	194.2	191.7	191.7	191.7
40°	1852.8	1469.2	688.0	323.6	226.5	200.3	192.3	189.0	187.6	188.0	188.0
42.5°	2074.7	1599.5	666.4	305.3	221.8	196.0	188.0	185.2	183.9	183.3	183.9
45°	2327.4	1747.8	664.1	291.7	217.1	193.2	185.2	182.5	179.6	177.8	177.8
47.5°	2573.2	1898.3	683.3	287.1	212.0	189.9	182.9	180.1	175.9	171.6	171.6
50°	2790.3	2026.3	709.1	288.9	210.1	185.2	179.1	177.8	171.2	166.5	166.0
52.5°	2962.9	2124.9	730.2	294.5	212.0	181.9	174.5	175.0	167.9	162.7	162.2
55°	3101.3	2189.5	724.5	300.1	216.3	180.1	170.2	171.2	165.5	160.4	160.4
57.5°	3161.6	2165.6	662.1	295.4	219.5	180.5	166.9	170.7	166.0	161.2	161.2
60°	3031.8	1953.2	545.4	274.8	215.2	179.1	165.5	172.5	172.1	167.3	166.9
62.5°	2638.8	1572.9	423.0	244.3	200.7	172.1	161.8	172.1	177.2	175.9	175.4
65°	2033.9	1120.4	323.1	211.5	181.1	160.4	152.0	161.2	168.4	170.2	169.8
67.5°	1320.1	686.5	249.0	180.5	159.0	146.7	139.3	143.4	144.9	144.9	144.0
70°	649.0	369.6	198.5	152.0	136.5	132.2	128.1	125.6	123.4	121.5	121.5
72.5°	320.3	241.5	163.3	128.5	117.7	115.9	114.9	112.1	110.3	107.8	107.0
75°	236.9	196.4	138.8	108.2	101.3	99.4	101.3	99.0	98.5	96.5	95.7
77.5°	194.6	167.3	119.5	92.9	86.8	83.5	86.4	86.8	87.2	84.4	83.5
80°	158.0	141.6	99.9	76.9	71.2	69.0	70.8	74.6	75.5	71.2	69.4
82.5°	113.9	115.9	80.7	60.0	55.2	53.4	57.3	62.0	62.9	56.7	55.2
85°	95.7	96.5	62.0	42.7	38.0	35.2	41.3	46.0	49.2	43.1	41.7
87.5°	39.9	56.7	35.6	23.9	21.1	18.2	22.1	24.4	29.5	27.2	26.8
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)