

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: P270125

Luminaire Tested: **GWC-AF-02-LED-E1-SL4-7027-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270125  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
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-SL4-7027-600-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5672.3 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2

Input Watts (W): 66  
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

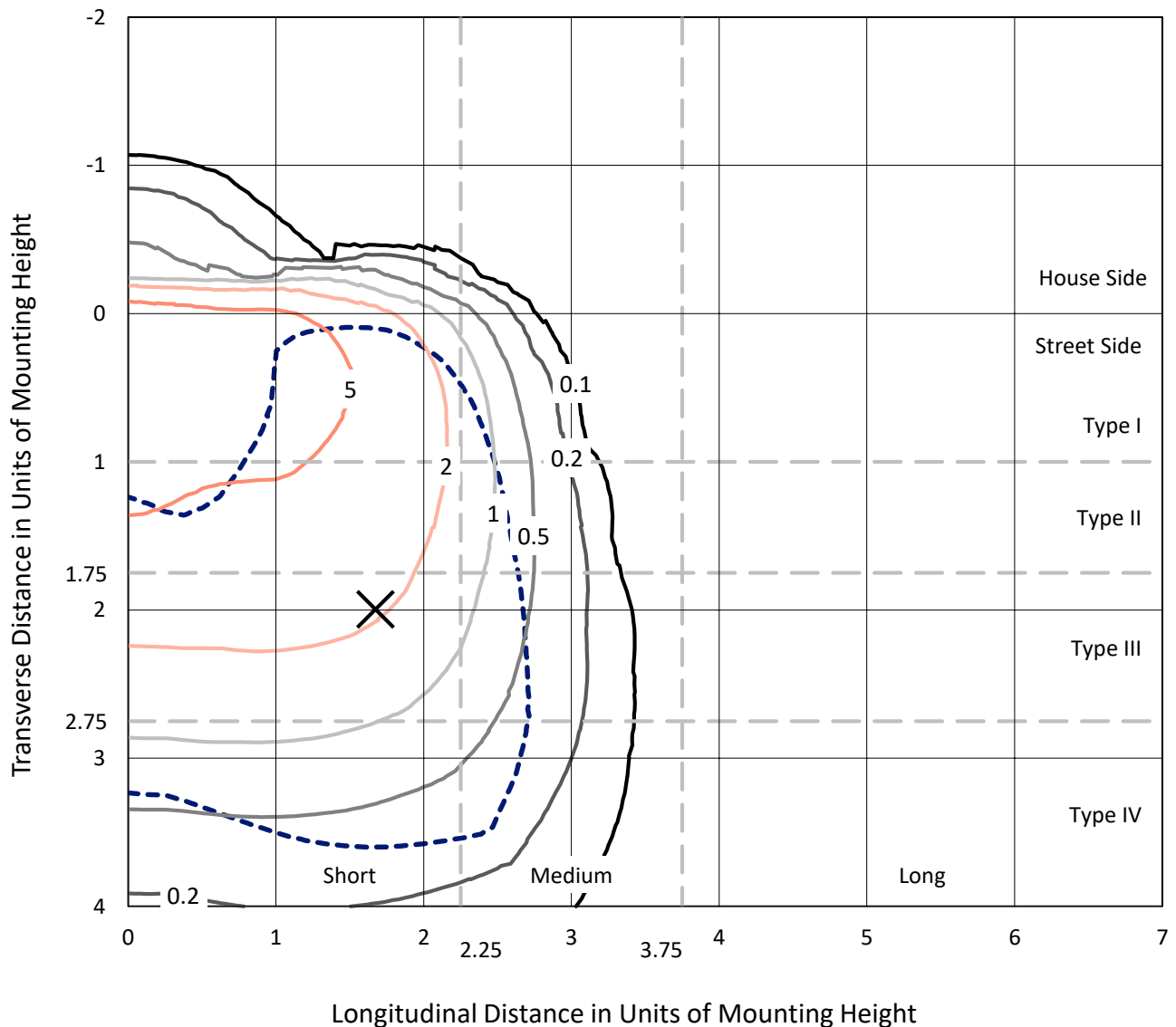


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

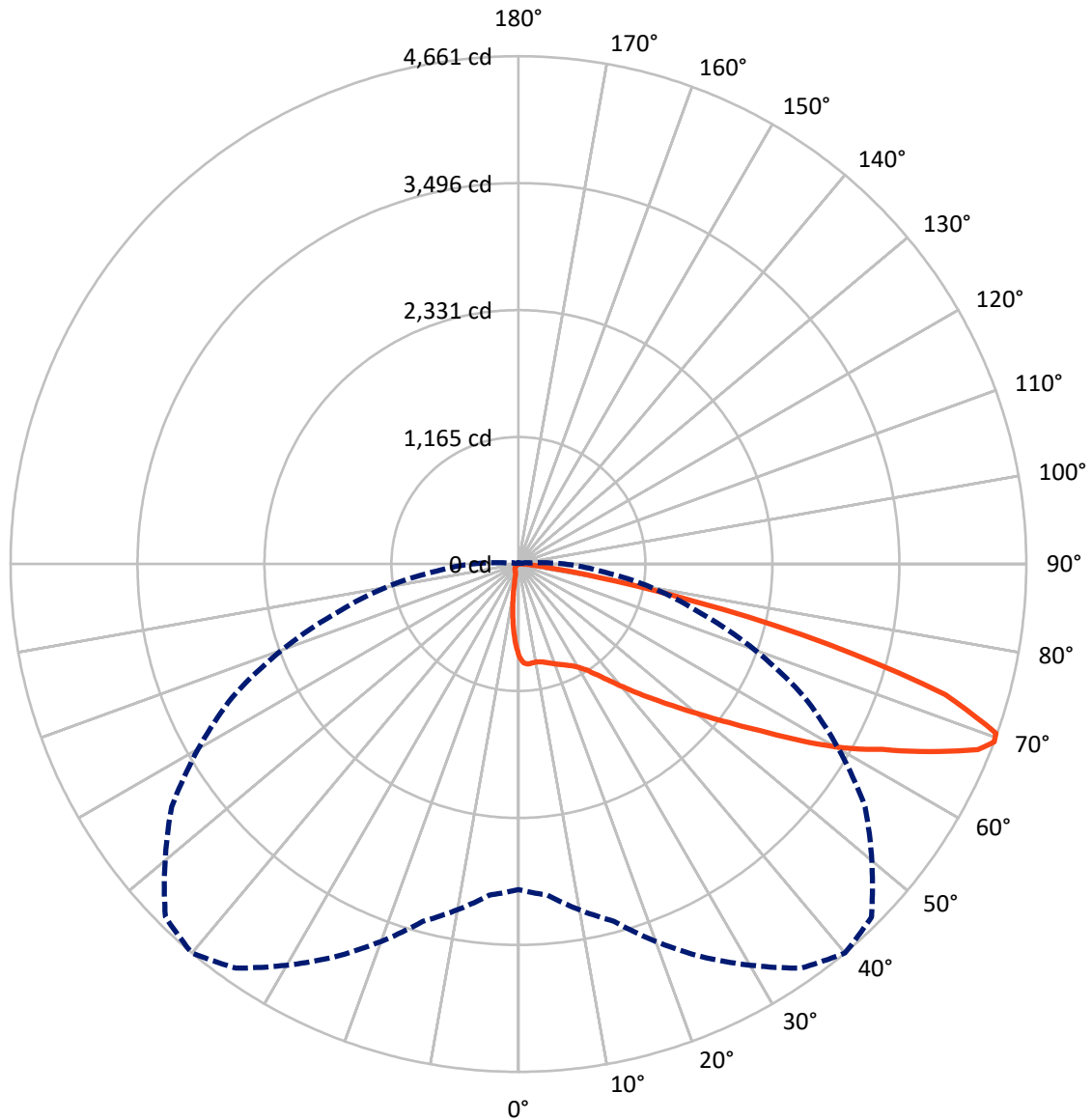


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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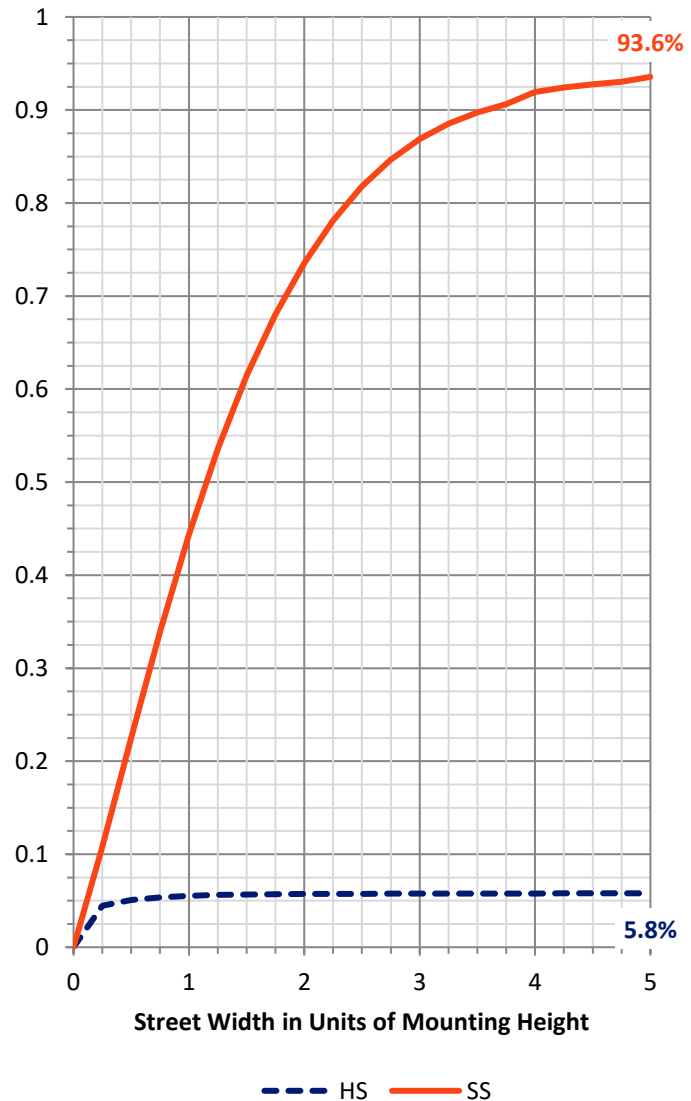
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	331.8	0.0	331.8
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	5340.5	0.0	5340.5
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	5672.3	0.0	5672.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.7	1.2
10°-20°	169.0	3.0
20°-30°	284.6	5.0
30°-40°	465.9	8.2
40°-50°	806.7	14.2
50°-60°	1270.7	22.4
60°-70°	1659.5	29.3
70°-80°	854.7	15.1
80°-90°	92.4	1.6
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°	5672.3	100.0
0°-180°	5672.3	100.0



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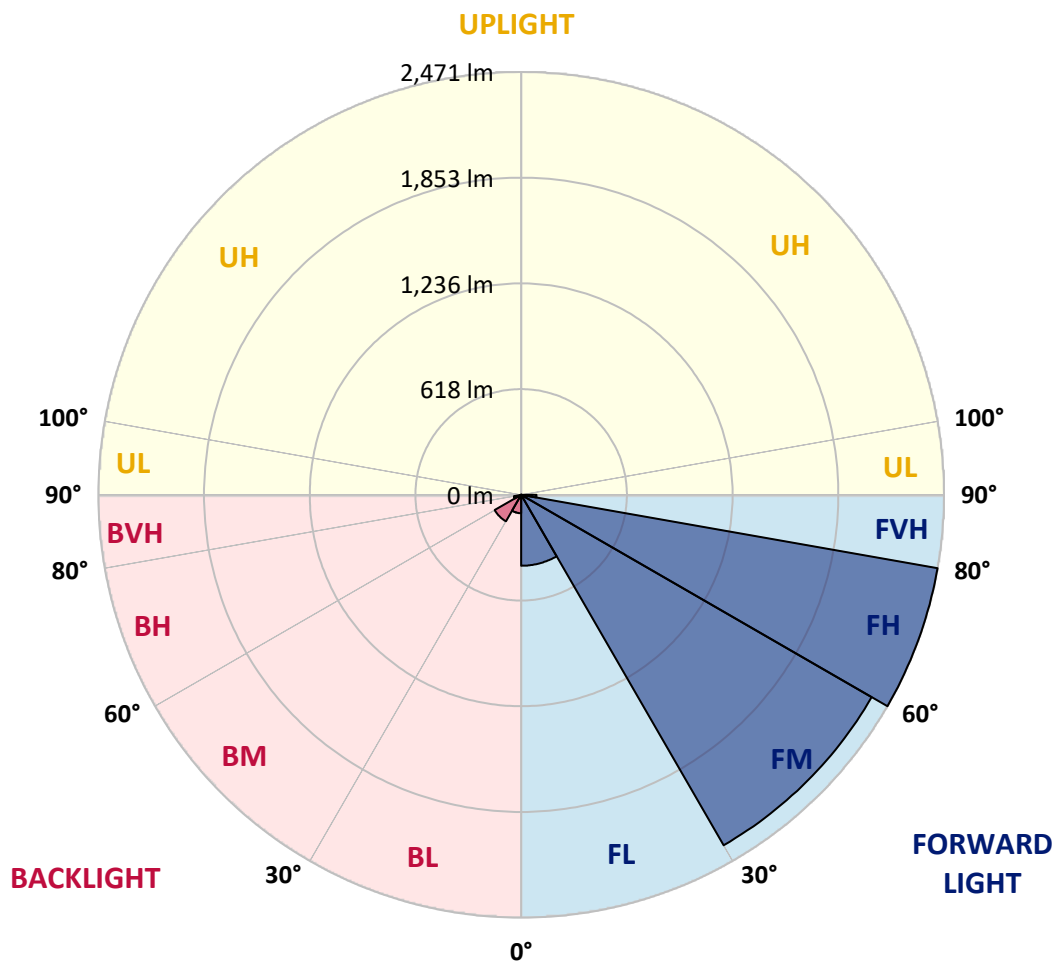
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.8	7.3			
FM	(30°-60°)	2365.0	41.7			
FH	(60°-80°)	2471.1	43.6			G2/5000
FVH	(80°-90°)	89.5	1.6			G1/100
BL	(0°-30°)	107.5	1.9	B0/110		
BM	(30°-60°)	178.3	3.1	B0/220		
BH	(60°-80°)	43.1	0.8	B0/110		G0/110
BVH	(80°-90°)	2.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	847.6	847.6	847.6	847.6	847.6	847.6	847.6	847.6	847.6	847.6	847.6
2.5°	930.5	925.5	922.4	918.3	913.3	908.9	907.3	894.7	882.9	866.7	848.2
5°	947.8	946.0	940.6	935.2	929.1	922.4	918.7	903.9	887.0	863.4	830.9
7.5°	949.4	947.4	940.6	933.2	924.8	916.7	910.3	895.3	879.8	855.9	816.5
10°	946.7	944.4	939.3	931.2	920.8	912.9	906.6	892.4	879.2	857.6	813.8
12.5°	943.8	941.3	939.0	935.0	925.8	920.4	914.9	901.4	889.7	871.4	823.5
15°	946.7	945.4	948.1	946.5	941.3	936.6	931.2	919.1	908.2	893.1	841.4
17.5°	959.6	959.6	968.0	969.0	964.2	957.5	949.8	937.7	928.5	915.6	862.6
20°	989.7	988.6	999.4	1001.4	989.9	979.5	968.0	953.2	946.0	937.9	883.6
22.5°	1041.2	1036.6	1043.0	1041.0	1018.3	1002.1	987.9	969.6	966.0	962.3	906.8
25°	1108.5	1105.8	1110.1	1090.3	1050.4	1028.5	1011.6	991.0	991.0	994.7	933.2
27.5°	1206.1	1195.9	1181.1	1146.0	1086.2	1058.1	1039.9	1018.0	1023.7	1037.6	968.0
30°	1306.0	1294.8	1260.8	1206.7	1129.7	1100.4	1079.0	1056.1	1069.6	1095.0	1014.6
32.5°	1404.6	1392.1	1343.9	1275.6	1192.1	1162.9	1142.3	1116.9	1139.6	1182.0	1082.8
35°	1500.2	1488.9	1433.2	1352.9	1275.2	1250.9	1232.0	1210.1	1239.1	1298.6	1179.0
37.5°	1607.5	1595.4	1527.5	1440.3	1376.3	1358.7	1344.8	1322.9	1373.6	1460.6	1313.1
40°	1739.5	1719.0	1627.4	1540.7	1493.0	1484.6	1475.2	1472.1	1550.8	1671.3	1491.6
42.5°	1890.8	1857.1	1732.1	1646.3	1621.4	1627.4	1625.1	1638.6	1772.6	1933.3	1709.1
45°	2042.0	1998.5	1848.5	1759.2	1762.5	1783.7	1797.0	1851.0	2050.5	2233.8	1943.1
47.5°	2170.3	2127.5	1960.4	1881.0	1921.5	1963.3	1999.2	2101.4	2336.0	2529.6	2125.0
50°	2280.2	2239.6	2078.9	2015.1	2106.2	2173.7	2231.7	2383.4	2643.4	2754.8	2252.7
52.5°	2369.8	2342.9	2201.7	2168.7	2317.2	2416.2	2501.2	2682.9	2915.4	2937.7	2352.0
55°	2457.4	2438.1	2333.8	2351.3	2565.0	2699.8	2807.5	3000.6	3149.8	3090.4	2447.3
57.5°	2558.0	2540.4	2484.4	2583.0	2890.8	3060.4	3177.8	3282.2	3356.2	3246.4	2537.1
60°	2660.6	2650.4	2651.8	2840.3	3265.0	3427.8	3492.5	3519.6	3558.7	3393.3	2542.1
62.5°	2758.5	2777.8	2843.3	3126.6	3623.2	3748.2	3780.9	3807.6	3761.7	3416.6	2348.6
65°	2924.3	2955.7	3112.0	3509.8	4017.2	4151.0	4184.8	4093.1	3793.7	3115.4	1910.4
67.5°	3005.3	3062.7	3341.6	3867.0	4399.4	4548.0	4535.5	4111.8	3404.5	2375.7	1225.9
69°	2988.4	3049.6	3394.6	3976.4	4526.4	4661.0	4581.8	3884.5	2900.4	1721.0	752.6
70°	2921.6	2983.4	3367.3	3972.4	4542.5	4649.3	4496.0	3604.0	2452.3	1258.3	470.6
72.5°	2439.8	2493.2	2989.5	3590.5	4184.8	4097.9	3761.3	2496.8	1194.8	342.7	106.0
75°	1501.8	1531.5	2145.1	2704.9	3160.7	2937.7	2506.0	1242.2	356.2	96.8	58.7
77.5°	793.5	807.0	1174.4	1594.3	2003.6	1657.8	1284.4	484.5	164.1	60.8	42.6
80°	469.0	479.2	632.3	729.0	867.0	724.2	513.6	297.4	117.5	38.1	37.8
82.5°	268.4	274.9	458.5	405.1	341.6	291.7	255.6	281.9	70.5	25.7	39.2
85°	98.6	100.0	258.0	308.3	203.3	120.9	126.9	233.6	19.0	16.2	30.7
87.5°	45.9	44.8	132.7	188.7	118.8	76.6	98.9	51.3	7.5	10.4	8.4
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°	847.6	847.6	847.6	847.6	847.6	847.6	847.6	847.6	847.6	847.6	847.6
2.5°	837.4	824.8	802.3	778.9	755.3	737.1	719.2	705.0	700.3	691.5	692.1
5°	811.7	788.8	741.5	693.5	643.5	602.3	563.6	532.2	517.0	501.4	501.4
7.5°	789.4	755.9	682.1	604.0	523.4	455.5	394.4	348.4	323.1	302.9	302.5
10°	781.0	735.7	632.3	520.7	408.2	315.7	243.2	196.5	172.5	157.0	156.3
12.5°	784.7	728.6	594.2	443.7	302.5	202.9	140.8	110.8	100.6	95.9	95.9
15°	795.5	726.6	556.1	368.4	213.7	126.9	93.5	85.4	84.7	84.7	84.7
17.5°	808.7	727.3	517.0	295.1	145.5	90.8	80.7	79.7	80.4	80.4	80.4
20°	822.1	727.6	474.7	227.2	102.7	79.1	75.9	75.6	76.4	76.4	76.6
22.5°	838.7	729.3	432.5	169.8	84.7	74.6	72.2	72.2	72.6	72.6	72.2
25°	857.6	732.7	388.6	125.9	77.3	71.6	69.5	69.2	69.5	69.2	68.9
27.5°	881.2	737.4	339.6	98.6	73.9	68.5	66.8	66.8	66.5	66.2	65.8
30°	910.9	742.8	284.7	83.7	70.5	65.8	64.1	63.8	63.5	62.8	62.8
32.5°	956.2	754.6	230.3	75.9	66.8	62.2	60.8	60.8	60.1	59.5	59.0
35°	1025.7	777.9	181.6	71.2	62.8	58.1	56.3	56.3	55.7	55.4	55.0
37.5°	1122.0	813.3	141.1	66.8	58.7	53.6	52.0	51.7	50.9	50.3	49.9
40°	1250.0	857.3	111.0	62.8	54.7	49.3	48.0	47.3	45.9	44.8	44.8
42.5°	1410.7	907.3	90.1	58.4	49.9	45.3	44.2	43.2	40.8	39.9	39.4
45°	1578.8	952.1	76.4	53.4	45.3	41.2	40.5	38.8	35.8	34.8	34.8
47.5°	1700.0	962.6	67.2	48.6	40.8	36.7	36.5	33.4	30.7	30.0	29.7
50°	1775.6	942.0	59.7	43.9	36.7	32.7	31.7	27.9	26.3	25.7	25.2
52.5°	1826.6	905.2	53.6	39.9	33.1	29.0	26.6	23.9	22.5	21.9	21.9
55°	1867.5	853.2	47.6	36.1	30.0	26.0	22.5	20.6	19.2	18.5	18.5
57.5°	1879.0	782.7	41.5	33.1	27.0	23.0	19.2	17.9	16.2	15.8	15.8
60°	1795.6	655.3	36.7	29.4	24.3	19.9	16.9	15.2	13.5	13.1	12.8
62.5°	1575.8	507.1	32.4	26.0	21.2	17.2	14.5	12.5	11.1	11.1	11.1
65°	1202.0	340.0	28.4	22.5	18.5	14.5	12.5	10.2	9.4	9.4	9.7
67.5°	719.5	185.1	24.3	19.2	15.8	12.1	10.4	8.8	8.4	8.8	8.8
69°	421.8	108.7	21.9	17.2	13.8	10.8	9.1	7.7	8.4	8.8	8.8
70°	260.3	73.2	20.3	15.5	12.5	9.7	8.4	7.5	8.1	8.4	8.4
72.5°	72.6	37.8	16.2	12.1	10.2	8.1	6.7	6.7	7.7	8.1	8.1
75°	47.3	27.9	12.5	9.1	7.7	6.4	5.7	6.4	7.5	7.7	7.7
77.5°	39.2	23.0	10.2	7.5	6.4	6.1	5.4	5.7	6.7	7.0	7.0
80°	35.8	16.2	8.1	6.7	5.7	5.4	5.0	4.8	6.1	6.4	6.4
82.5°	34.0	12.8	7.0	6.1	5.4	4.8	4.3	4.8	5.4	5.7	6.1
85°	21.2	8.4	6.4	5.7	4.8	4.3	4.3	4.3	5.0	5.4	5.4
87.5°	7.7	6.7	5.7	4.8	4.0	4.0	4.0	4.0	4.3	5.0	5.0
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)