

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: P270097

Luminaire Tested: **GWC-AF-01-LED-E1-SL4-7027-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270097  
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-01-LED-E1-SL4-7027-600-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE 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: 2904.2 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - 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

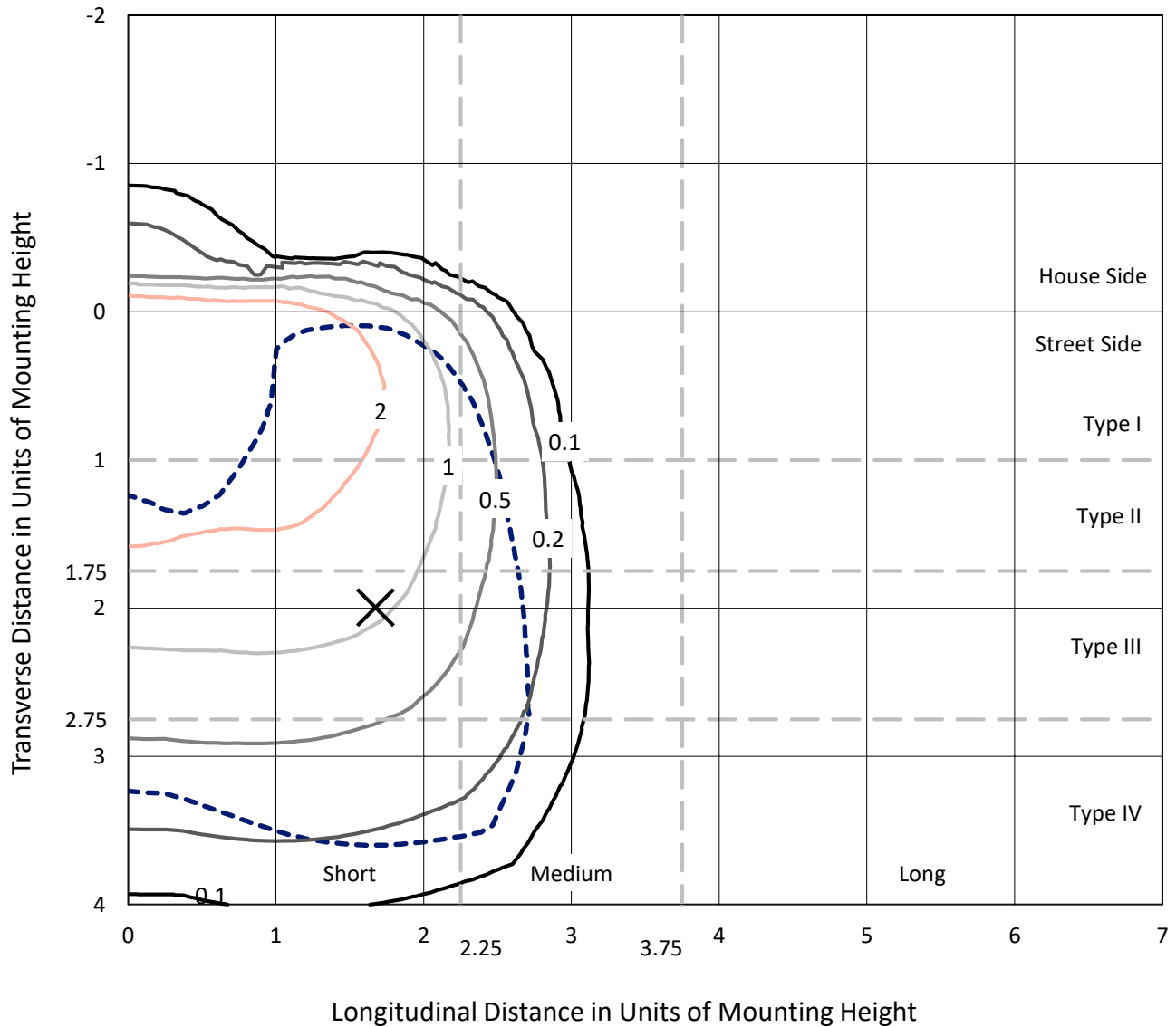


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

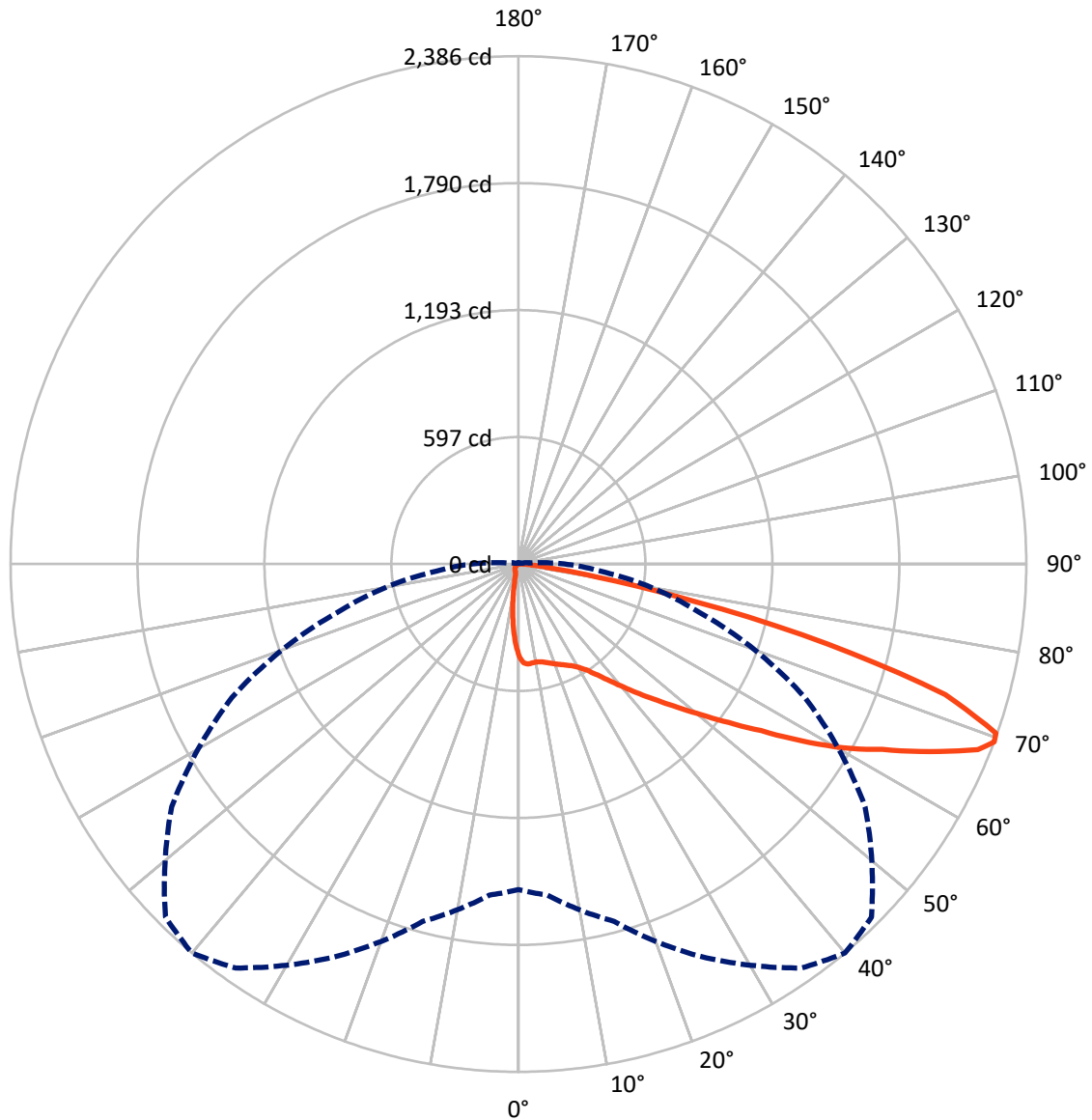


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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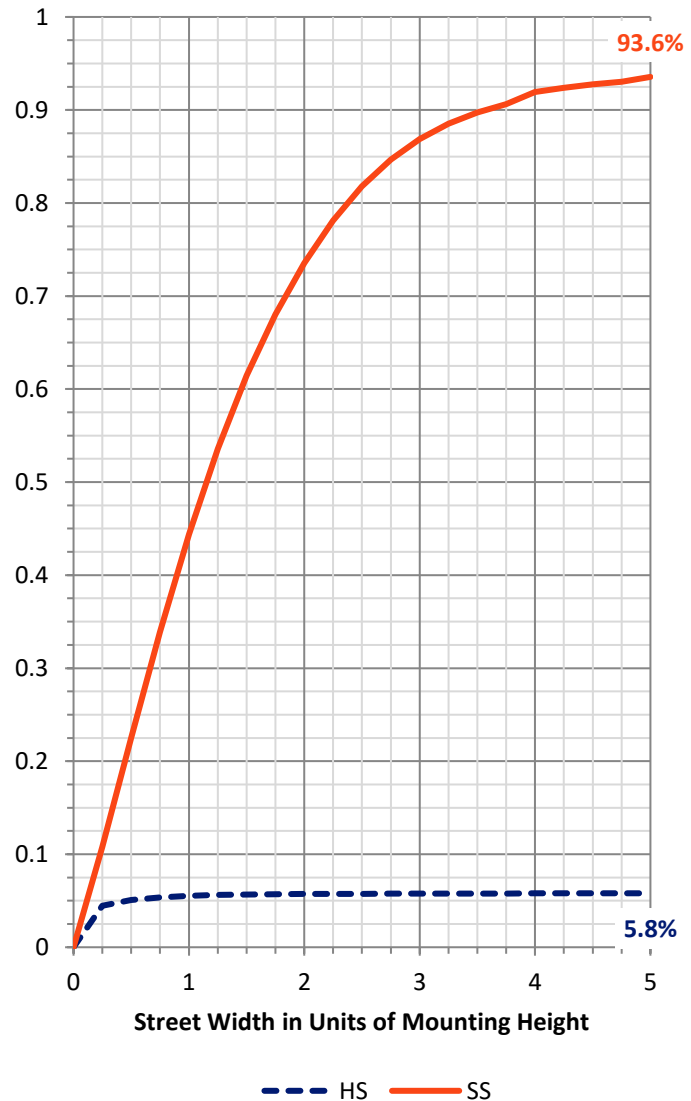
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	169.9	0.0	169.9
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	2734.3	0.0	2734.3
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	2904.2	0.0	2904.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.2	1.2
10°-20°	86.5	3.0
20°-30°	145.7	5.0
30°-40°	238.6	8.2
40°-50°	413.0	14.2
50°-60°	650.6	22.4
60°-70°	849.7	29.3
70°-80°	437.6	15.1
80°-90°	47.3	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°	2904.2	100.0
0°-180°	2904.2	100.0



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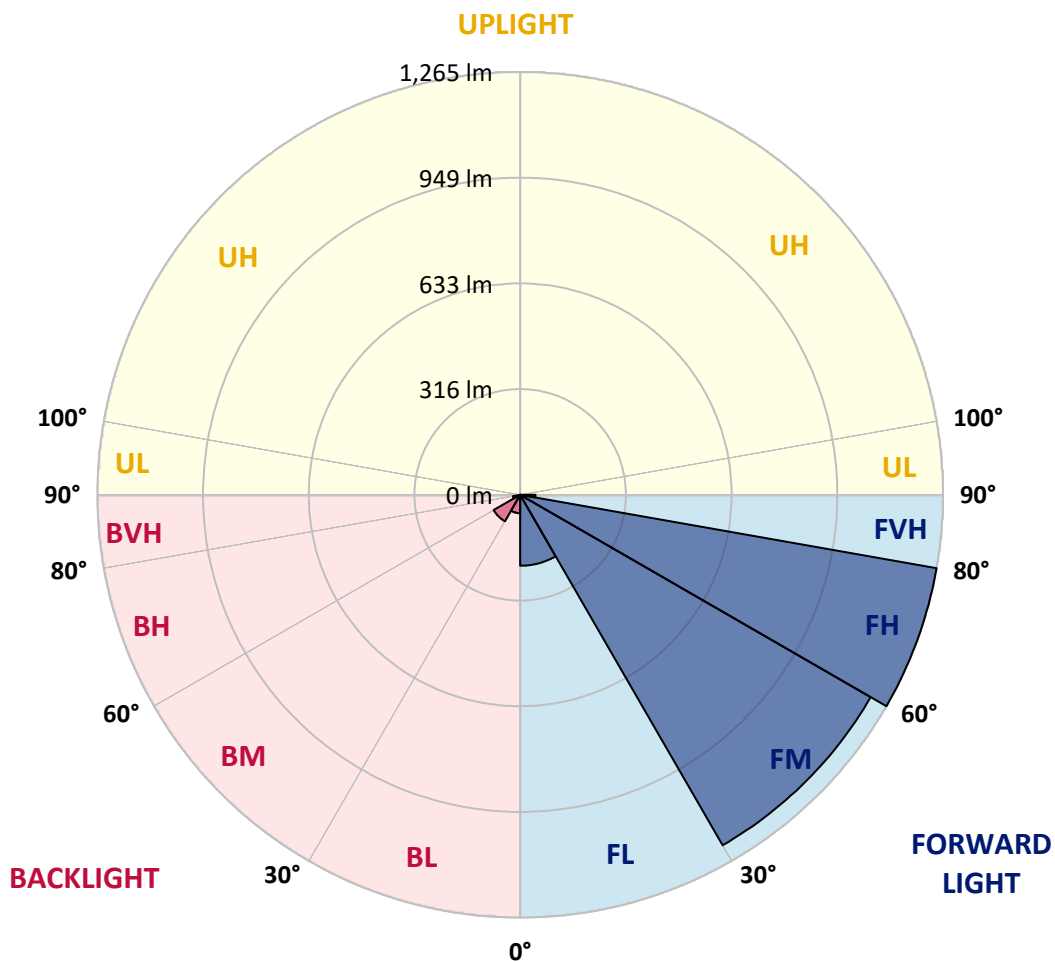
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	212.4	7.3			
FM	(30°-60°)	1210.9	41.7			
FH	(60°-80°)	1265.2	43.6			G1/1800
FVH	(80°-90°)	45.8	1.6			G1/100
BL	(0°-30°)	55.0	1.9	B0/110		
BM	(30°-60°)	91.3	3.1	B0/220		
BH	(60°-80°)	22.1	0.8	B0/110		G0/110
BVH	(80°-90°)	1.5	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	433.9	433.9	433.9	433.9	433.9	433.9	433.9	433.9	433.9	433.9	433.9
2.5°	476.5	473.9	472.3	470.2	467.6	465.3	464.5	458.1	452.0	443.8	434.2
5°	485.3	484.4	481.7	478.9	475.7	472.3	470.4	462.7	454.2	442.0	425.4
7.5°	486.1	485.0	481.7	477.8	473.4	469.3	466.0	458.5	450.5	438.2	418.0
10°	484.7	483.5	480.9	476.7	471.4	467.5	464.2	456.9	450.2	439.1	416.6
12.5°	483.2	481.9	480.8	478.6	474.0	471.3	468.5	461.5	455.5	446.2	421.7
15°	484.7	484.1	485.4	484.5	481.9	479.5	476.7	470.5	465.1	457.2	430.8
17.5°	491.3	491.3	495.7	496.1	493.7	490.2	486.3	480.1	475.4	468.8	441.7
20°	506.6	506.2	511.7	512.8	506.8	501.5	495.7	488.0	484.4	480.2	452.4
22.5°	533.1	530.6	534.0	533.0	521.4	513.1	505.7	496.5	494.6	492.6	464.2
25°	567.5	566.2	568.4	558.2	537.8	526.5	518.0	507.5	507.5	509.2	477.8
27.5°	617.5	612.3	604.6	586.7	556.1	541.8	532.4	521.2	524.1	531.3	495.7
30°	668.6	662.9	645.5	617.8	578.4	563.4	552.5	540.7	547.6	560.5	519.5
32.5°	719.1	712.7	688.0	653.1	610.4	595.4	584.8	571.9	583.4	605.3	554.4
35°	768.1	762.3	733.8	692.7	652.9	640.5	630.8	619.6	634.4	664.8	603.7
37.5°	823.0	816.8	782.1	737.4	704.6	695.6	688.6	677.3	703.3	747.8	672.3
40°	890.7	880.1	833.3	788.8	764.5	760.1	755.3	753.8	794.0	855.7	763.7
42.5°	968.0	950.8	886.8	842.9	830.1	833.3	832.0	838.9	907.6	989.8	875.0
45°	1045.5	1023.3	946.5	900.6	902.4	913.2	920.0	947.7	1049.8	1143.7	994.9
47.5°	1111.2	1089.2	1003.7	963.0	983.7	1005.3	1023.5	1075.9	1196.1	1295.1	1088.0
50°	1167.3	1146.6	1064.3	1031.7	1078.3	1112.9	1142.6	1220.3	1353.4	1410.4	1153.3
52.5°	1213.4	1199.5	1127.2	1110.3	1186.4	1237.1	1280.6	1373.7	1492.7	1504.1	1204.3
55°	1258.2	1248.3	1194.8	1203.8	1313.2	1382.2	1437.5	1536.3	1612.7	1582.3	1253.0
57.5°	1309.6	1300.7	1272.0	1322.4	1480.0	1566.9	1627.0	1680.5	1718.3	1662.1	1298.9
60°	1362.2	1357.1	1357.7	1454.2	1671.6	1754.9	1788.2	1801.9	1822.0	1737.3	1301.5
62.5°	1412.3	1422.2	1455.8	1600.8	1855.0	1919.0	1935.8	1949.5	1926.0	1749.3	1202.5
65°	1497.2	1513.3	1593.3	1797.0	2056.8	2125.3	2142.5	2095.7	1942.3	1595.1	978.1
67.5°	1538.7	1568.1	1710.8	1979.9	2252.4	2328.6	2322.2	2105.2	1743.0	1216.3	627.7
69°	1530.1	1561.3	1738.0	2035.9	2317.4	2386.4	2345.8	1988.8	1484.9	881.1	385.4
70°	1495.8	1527.5	1724.0	2033.8	2325.8	2380.3	2301.9	1845.2	1255.6	644.4	241.0
72.5°	1249.2	1276.5	1530.5	1838.3	2142.5	2098.2	1925.7	1278.3	611.8	175.5	54.3
75°	768.9	784.1	1098.2	1384.8	1618.2	1504.1	1283.0	636.0	182.4	49.6	30.1
77.5°	406.2	413.1	601.2	816.3	1025.9	848.8	657.6	248.0	84.1	31.2	21.8
80°	240.1	245.2	323.8	373.2	443.9	370.8	262.9	152.3	60.2	19.5	19.4
82.5°	137.4	140.7	234.7	207.4	174.9	149.4	130.8	144.4	36.1	13.1	20.0
85°	50.5	51.1	132.1	157.8	104.1	61.8	65.0	119.7	9.6	8.3	15.7
87.5°	23.5	23.0	67.9	96.7	60.9	39.3	50.7	26.2	3.8	5.4	4.3
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°	433.9	433.9	433.9	433.9	433.9	433.9	433.9	433.9	433.9	433.9	433.9
2.5°	428.7	422.3	410.7	398.8	386.7	377.4	368.2	360.9	358.5	354.0	354.4
5°	415.6	403.8	379.6	355.1	329.5	308.4	288.4	272.5	264.6	256.7	256.7
7.5°	404.1	387.1	349.2	309.2	268.0	233.2	201.9	178.4	165.5	155.0	154.9
10°	399.8	376.7	323.8	266.6	208.9	161.6	124.5	100.6	88.4	80.4	80.0
12.5°	401.7	373.0	304.3	227.1	154.9	103.9	72.0	56.8	51.6	49.1	49.1
15°	407.3	372.1	284.8	188.6	109.4	65.0	47.9	43.7	43.4	43.4	43.4
17.5°	414.0	372.3	264.6	151.1	74.5	46.5	41.3	40.8	41.1	41.1	41.1
20°	420.9	372.5	243.1	116.3	52.6	40.4	38.9	38.7	39.1	39.1	39.3
22.5°	429.5	373.4	221.4	87.0	43.4	38.2	36.9	36.9	37.2	37.2	36.9
25°	439.1	375.1	199.0	64.4	39.5	36.7	35.6	35.4	35.6	35.4	35.3
27.5°	451.1	377.6	173.8	50.5	37.8	35.1	34.2	34.2	34.0	33.9	33.7
30°	466.4	380.3	145.7	42.8	36.1	33.7	32.8	32.7	32.5	32.2	32.2
32.5°	489.6	386.4	117.9	38.9	34.2	31.8	31.2	31.2	30.8	30.4	30.3
35°	525.1	398.3	93.0	36.5	32.2	29.7	28.8	28.8	28.6	28.4	28.2
37.5°	574.5	416.5	72.2	34.2	30.1	27.5	26.6	26.4	26.1	25.8	25.6
40°	640.0	438.9	56.9	32.2	27.9	25.2	24.5	24.3	23.5	23.0	23.0
42.5°	722.3	464.5	46.1	29.9	25.6	23.2	22.6	22.1	20.9	20.4	20.3
45°	808.4	487.5	39.1	27.3	23.2	21.1	20.8	19.9	18.3	17.9	17.9
47.5°	870.4	492.8	34.4	24.9	20.9	18.8	18.7	17.1	15.7	15.4	15.3
50°	909.1	482.3	30.5	22.5	18.8	16.8	16.2	14.4	13.5	13.1	12.9
52.5°	935.2	463.4	27.5	20.4	17.0	14.8	13.7	12.2	11.6	11.2	11.2
55°	956.2	436.8	24.4	18.5	15.4	13.3	11.6	10.5	9.9	9.5	9.5
57.5°	962.1	400.7	21.2	17.0	13.8	11.8	9.9	9.2	8.3	8.1	8.1
60°	919.3	335.6	18.8	15.1	12.5	10.2	8.7	7.8	6.9	6.7	6.6
62.5°	806.8	259.6	16.6	13.3	10.9	8.8	7.5	6.4	5.7	5.7	5.7
65°	615.3	174.1	14.6	11.6	9.5	7.5	6.4	5.2	4.9	4.9	5.0
67.5°	368.4	94.8	12.5	9.9	8.1	6.3	5.4	4.5	4.3	4.5	4.5
69°	216.0	55.7	11.2	8.8	7.0	5.5	4.7	4.0	4.3	4.5	4.5
70°	133.2	37.5	10.4	7.9	6.4	5.0	4.3	3.8	4.1	4.3	4.3
72.5°	37.2	19.4	8.3	6.3	5.2	4.1	3.5	3.5	4.0	4.1	4.1
75°	24.3	14.4	6.4	4.7	4.0	3.3	2.9	3.3	3.8	4.0	4.0
77.5°	20.0	11.8	5.2	3.8	3.3	3.1	2.8	2.9	3.5	3.7	3.7
80°	18.3	8.3	4.1	3.5	2.9	2.8	2.6	2.4	3.1	3.3	3.3
82.5°	17.4	6.6	3.7	3.1	2.8	2.4	2.2	2.4	2.8	2.9	3.1
85°	10.9	4.3	3.3	2.9	2.4	2.2	2.2	2.2	2.6	2.8	2.8
87.5°	4.0	3.5	2.9	2.4	2.2	2.2	2.2	2.2	2.2	2.6	2.6
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)