

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: P199979

Luminaire Tested: **GWC-AF-01-LED-E1-SL4-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199979
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-SL4-7030-600-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 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: 3233 lumens
Efficiency: N/A
Efficacy: 95.1 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

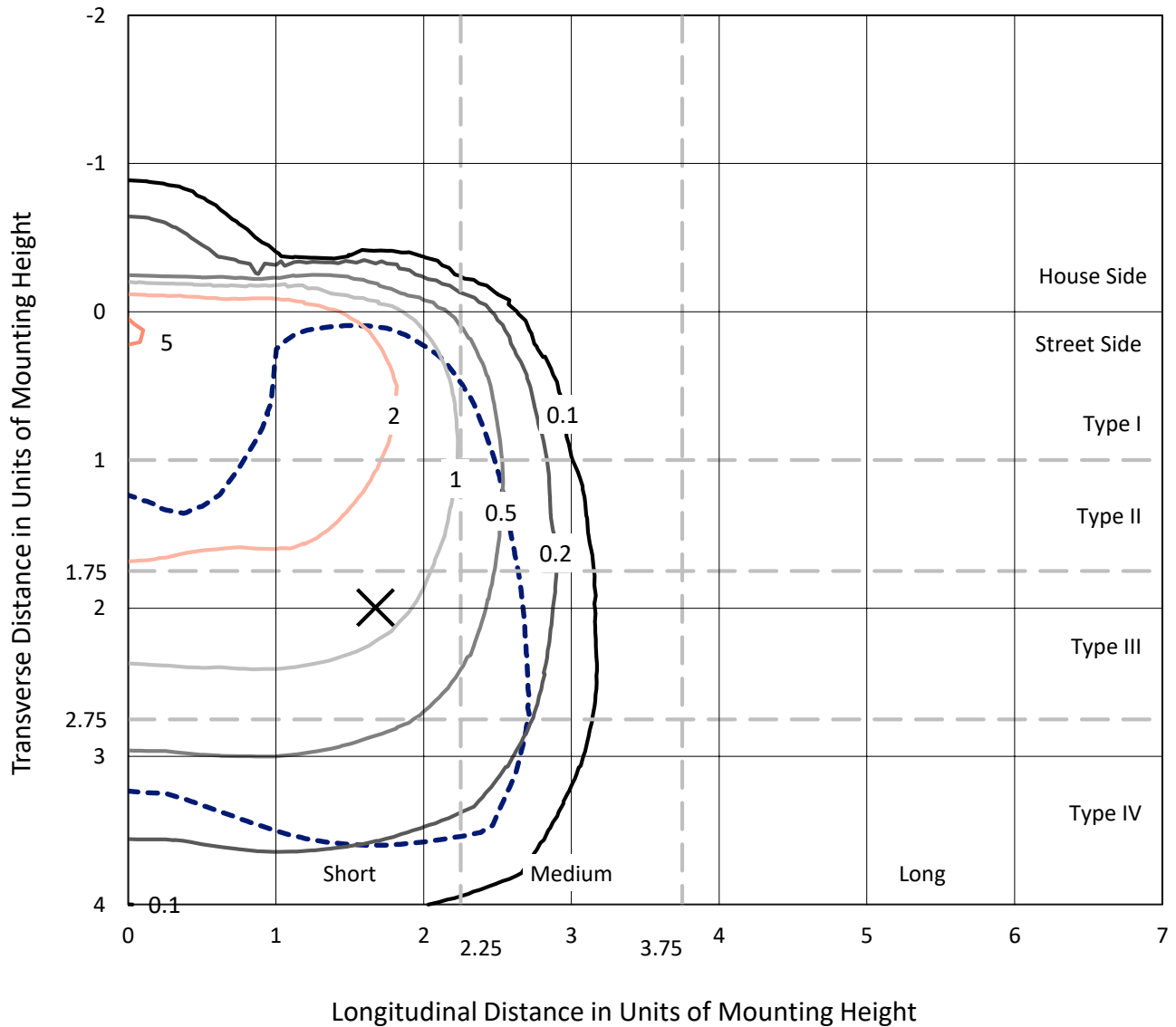


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

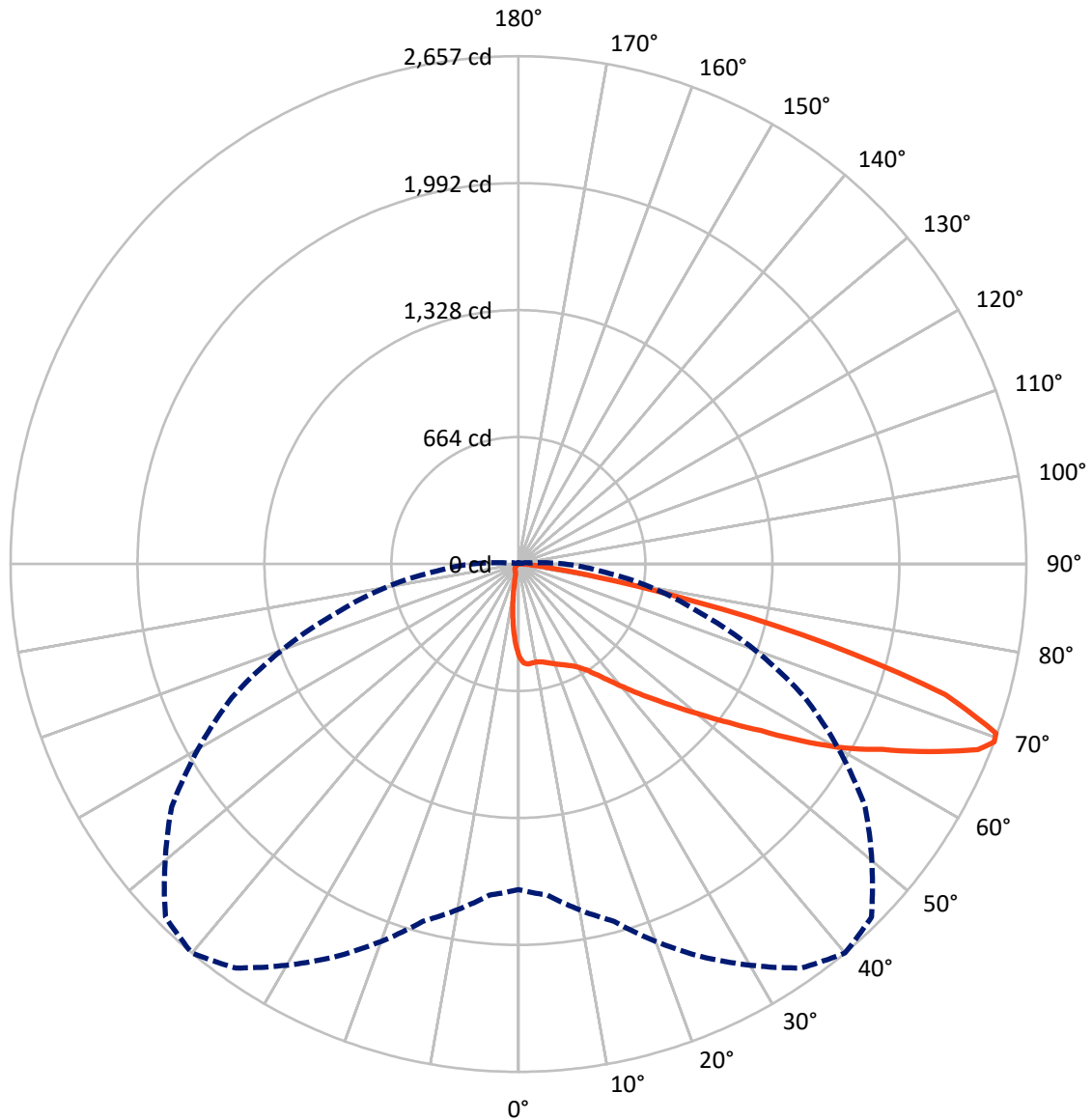


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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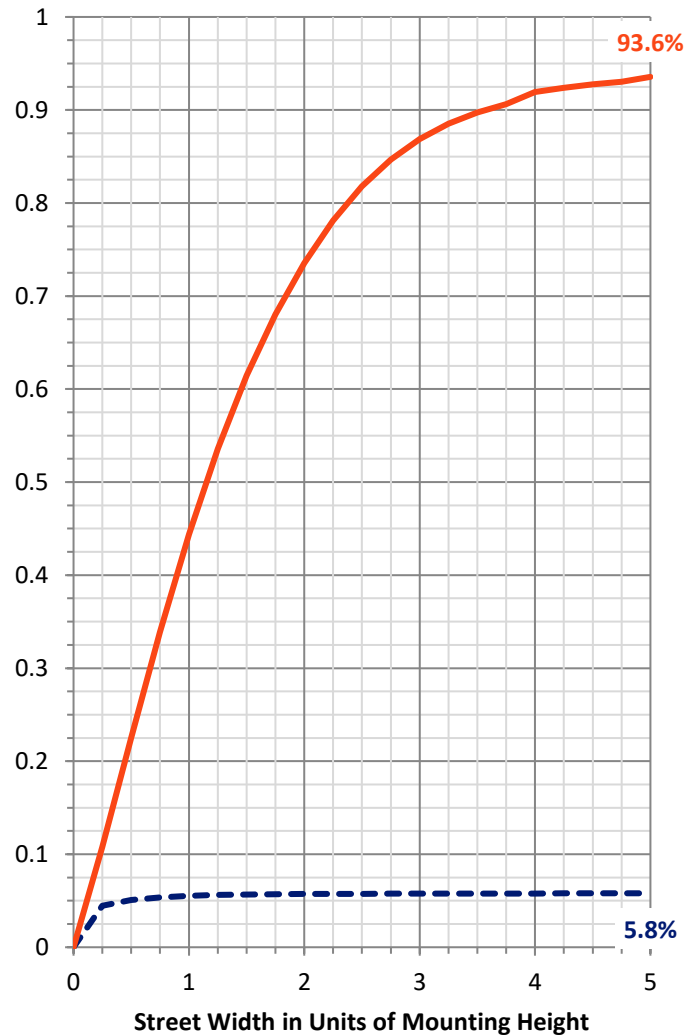
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	189.1	0.0	189.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	3043.8	0.0	3043.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	3233.0	0.0	3233.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	1.2
10°-20°	96.3	3.0
20°-30°	162.2	5.0
30°-40°	265.6	8.2
40°-50°	459.8	14.2
50°-60°	724.2	22.4
60°-70°	945.8	29.3
70°-80°	487.1	15.1
80°-90°	52.7	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°	3233.0	100.0
0°-180°	3233.0	100.0



--- HS — SS

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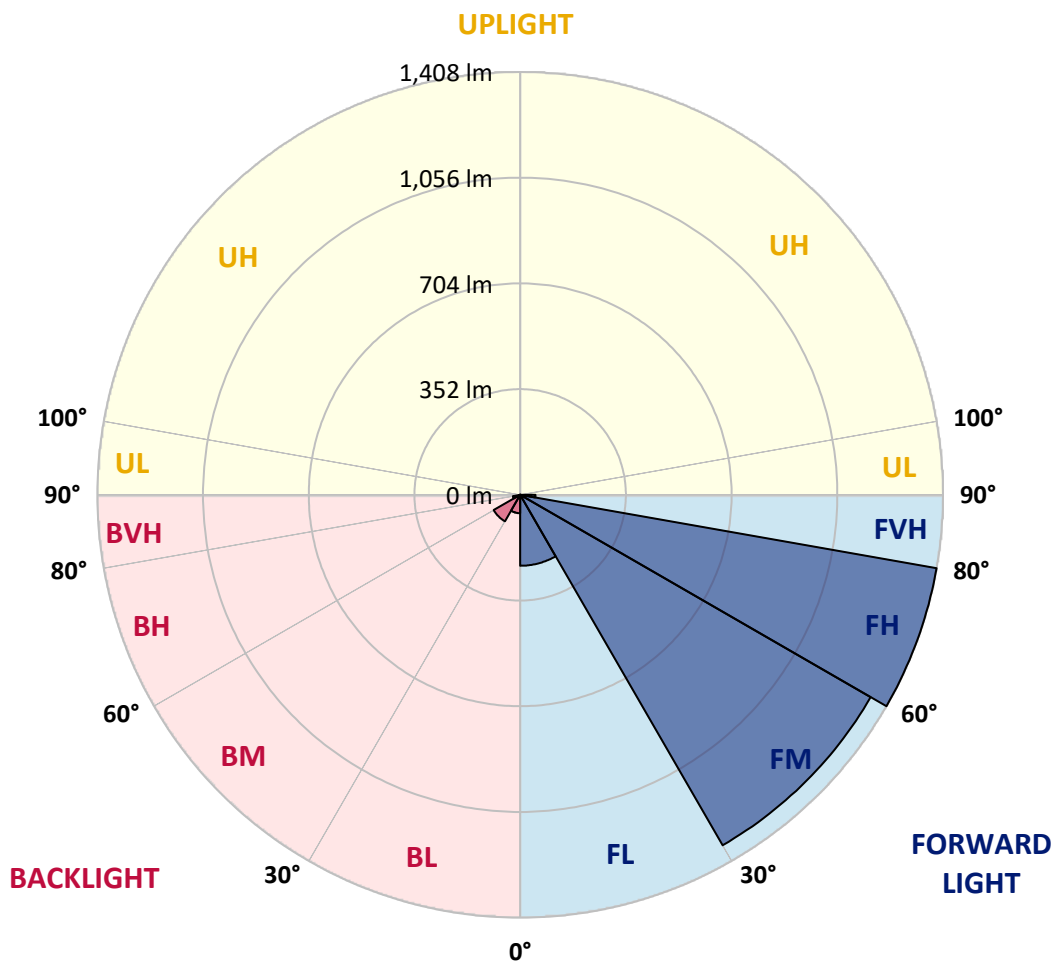
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	236.4	7.3			
FM	(30°-60°)	1347.9	41.7			
FH	(60°-80°)	1408.4	43.6			G1/1800
FVH	(80°-90°)	51.0	1.6			G1/100
BL	(0°-30°)	61.3	1.9	B0/110		
BM	(30°-60°)	101.7	3.1	B0/220		
BH	(60°-80°)	24.6	0.8	B0/110		G0/110
BVH	(80°-90°)	1.7	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°	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0
2.5°	530.4	527.5	525.8	523.4	520.5	518.0	517.1	510.0	503.2	494.0	483.4
5°	540.2	539.2	536.2	533.1	529.6	525.8	523.6	515.1	505.6	492.0	473.6
7.5°	541.1	539.9	536.2	531.9	527.0	522.4	518.8	510.4	501.5	487.8	465.3
10°	539.6	538.2	535.3	530.7	524.8	520.4	516.7	508.6	501.2	488.8	463.8
12.5°	537.9	536.5	535.2	532.8	527.7	524.6	521.5	513.8	507.1	496.7	469.4
15°	539.6	538.9	540.4	539.4	536.5	533.8	530.7	523.8	517.7	509.0	479.6
17.5°	546.9	546.9	551.8	552.3	549.6	545.7	541.3	534.4	529.2	521.9	491.7
20°	564.0	563.5	569.6	570.8	564.2	558.3	551.8	543.3	539.2	534.6	503.6
22.5°	593.5	590.7	594.4	593.3	580.4	571.2	563.0	552.7	550.6	548.4	516.8
25°	631.8	630.3	632.7	621.4	598.7	586.1	576.6	564.9	564.9	566.9	531.9
27.5°	687.4	681.6	673.1	653.1	619.1	603.1	592.7	580.2	583.4	591.4	551.8
30°	744.3	738.0	718.6	687.7	643.9	627.2	615.0	601.9	609.6	624.0	578.3
32.5°	800.5	793.4	765.9	727.0	679.5	662.8	651.0	636.6	649.5	673.8	617.2
35°	855.0	848.6	816.9	771.1	726.8	713.0	702.2	689.7	706.2	740.1	672.0
37.5°	916.2	909.3	870.6	820.9	784.4	774.4	766.5	754.0	782.9	832.5	748.4
40°	991.5	979.7	927.6	878.1	851.0	846.2	840.8	839.1	883.9	952.6	850.2
42.5°	1077.6	1058.4	987.2	938.3	924.1	927.6	926.2	933.9	1010.3	1101.9	974.1
45°	1163.9	1139.1	1053.6	1002.6	1004.6	1016.6	1024.1	1055.0	1168.7	1273.2	1107.5
47.5°	1237.0	1212.5	1117.3	1072.0	1095.1	1119.1	1139.4	1197.7	1331.5	1441.7	1211.2
50°	1299.5	1276.4	1184.8	1148.5	1200.4	1238.9	1272.0	1358.4	1506.6	1570.1	1283.9
52.5°	1350.8	1335.3	1254.8	1236.0	1320.7	1377.1	1425.6	1529.2	1661.7	1674.4	1340.6
55°	1400.6	1389.6	1330.1	1340.1	1461.9	1538.7	1600.2	1710.2	1795.3	1761.4	1394.8
57.5°	1457.9	1448.0	1416.0	1472.1	1647.6	1744.3	1811.2	1870.7	1912.8	1850.3	1446.0
60°	1516.4	1510.7	1511.4	1618.8	1860.8	1953.6	1990.6	2005.9	2028.3	1934.0	1448.8
62.5°	1572.2	1583.2	1620.6	1782.0	2065.0	2136.2	2154.9	2170.2	2144.0	1947.3	1338.6
65°	1666.7	1684.6	1773.7	2000.4	2289.6	2365.9	2385.1	2332.9	2162.2	1775.7	1088.8
67.5°	1712.9	1745.6	1904.5	2204.0	2507.4	2592.2	2585.1	2343.5	1940.3	1354.0	698.8
69°	1703.3	1738.1	1934.7	2266.4	2579.8	2656.6	2611.4	2214.0	1653.0	980.8	429.0
70°	1665.1	1700.4	1919.2	2264.0	2589.1	2649.8	2562.5	2054.1	1397.7	717.3	268.3
72.5°	1390.6	1421.0	1703.8	2046.4	2385.1	2335.7	2143.7	1423.0	681.1	195.4	60.5
75°	855.9	872.9	1222.5	1541.6	1801.4	1674.4	1428.3	708.0	203.0	55.2	33.5
77.5°	452.2	459.9	669.3	908.7	1142.0	944.9	732.1	276.1	93.6	34.7	24.3
80°	267.3	273.0	360.5	415.5	494.2	412.8	292.7	169.5	67.0	21.7	21.6
82.5°	152.9	156.6	261.3	230.9	194.7	166.3	145.6	160.7	40.2	14.6	22.3
85°	56.2	56.9	147.0	175.7	115.9	68.8	72.4	133.2	10.7	9.2	17.5
87.5°	26.2	25.6	75.6	107.6	67.8	43.7	56.4	29.2	4.2	6.0	4.8
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°	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0
2.5°	477.2	470.1	457.2	443.9	430.5	420.1	409.9	401.8	399.1	394.1	394.5
5°	462.6	449.5	422.6	395.3	366.8	343.3	321.1	303.3	294.6	285.8	285.8
7.5°	449.9	430.9	388.7	344.2	298.3	259.6	224.8	198.6	184.2	172.6	172.4
10°	445.1	419.3	360.5	296.8	232.6	179.9	138.6	112.0	98.4	89.5	89.1
12.5°	447.2	415.2	338.7	252.8	172.4	115.7	80.2	63.2	57.4	54.7	54.7
15°	453.4	414.2	317.0	210.0	121.8	72.4	53.3	48.7	48.3	48.3	48.3
17.5°	460.9	414.5	294.6	168.2	82.9	51.8	46.0	45.4	45.8	45.8	45.8
20°	468.6	414.7	270.6	129.5	58.5	45.0	43.3	43.1	43.5	43.5	43.7
22.5°	478.1	415.7	246.5	96.8	48.3	42.5	41.1	41.1	41.4	41.4	41.1
25°	488.8	417.6	221.5	71.7	44.0	40.8	39.6	39.4	39.6	39.4	39.3
27.5°	502.2	420.3	193.5	56.2	42.1	39.1	38.1	38.1	37.9	37.7	37.5
30°	519.2	423.4	162.2	47.7	40.2	37.5	36.5	36.4	36.2	35.8	35.8
32.5°	545.0	430.1	131.3	43.3	38.1	35.4	34.7	34.7	34.3	33.8	33.7
35°	584.6	443.4	103.5	40.6	35.8	33.1	32.1	32.1	31.8	31.6	31.4
37.5°	639.5	463.6	80.4	38.1	33.5	30.6	29.6	29.4	29.1	28.7	28.5
40°	712.4	488.6	63.3	35.8	31.1	28.1	27.3	27.0	26.2	25.6	25.6
42.5°	804.1	517.1	51.3	33.3	28.5	25.8	25.2	24.6	23.3	22.7	22.6
45°	899.9	542.7	43.5	30.4	25.8	23.5	23.1	22.1	20.4	19.9	19.9
47.5°	968.9	548.6	38.3	27.7	23.3	20.9	20.8	19.0	17.5	17.1	17.0
50°	1012.0	536.9	34.0	25.0	20.9	18.7	18.0	16.0	15.0	14.6	14.4
52.5°	1041.1	515.9	30.6	22.7	18.9	16.5	15.3	13.6	12.9	12.5	12.5
55°	1064.4	486.3	27.2	20.6	17.1	14.8	12.9	11.7	11.0	10.6	10.6
57.5°	1071.0	446.1	23.6	18.9	15.4	13.1	11.0	10.2	9.2	9.0	9.0
60°	1023.4	373.6	20.9	16.8	13.9	11.4	9.7	8.7	7.7	7.5	7.3
62.5°	898.1	289.0	18.5	14.8	12.1	9.8	8.3	7.1	6.3	6.3	6.3
65°	685.0	193.8	16.2	12.9	10.6	8.3	7.1	5.8	5.4	5.4	5.6
67.5°	410.1	105.5	13.9	11.0	9.0	7.0	6.0	5.0	4.8	5.0	5.0
69°	240.4	62.0	12.5	9.8	7.8	6.1	5.2	4.4	4.8	5.0	5.0
70°	148.3	41.8	11.6	8.8	7.1	5.6	4.8	4.2	4.6	4.8	4.8
72.5°	41.4	21.6	9.2	7.0	5.8	4.6	3.9	3.9	4.4	4.6	4.6
75°	27.0	16.0	7.1	5.2	4.4	3.7	3.2	3.7	4.2	4.4	4.4
77.5°	22.3	13.1	5.8	4.2	3.7	3.4	3.1	3.2	3.9	4.1	4.1
80°	20.4	9.2	4.6	3.9	3.2	3.1	2.9	2.7	3.4	3.7	3.7
82.5°	19.4	7.3	4.1	3.4	3.1	2.7	2.5	2.7	3.1	3.2	3.4
85°	12.1	4.8	3.7	3.2	2.7	2.5	2.5	2.5	2.9	3.1	3.1
87.5°	4.4	3.9	3.2	2.7	2.4	2.4	2.4	2.4	2.5	2.9	2.9
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)