

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: P650687

Luminaire Tested: **GALN-SA1C-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS 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: 4921.5 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

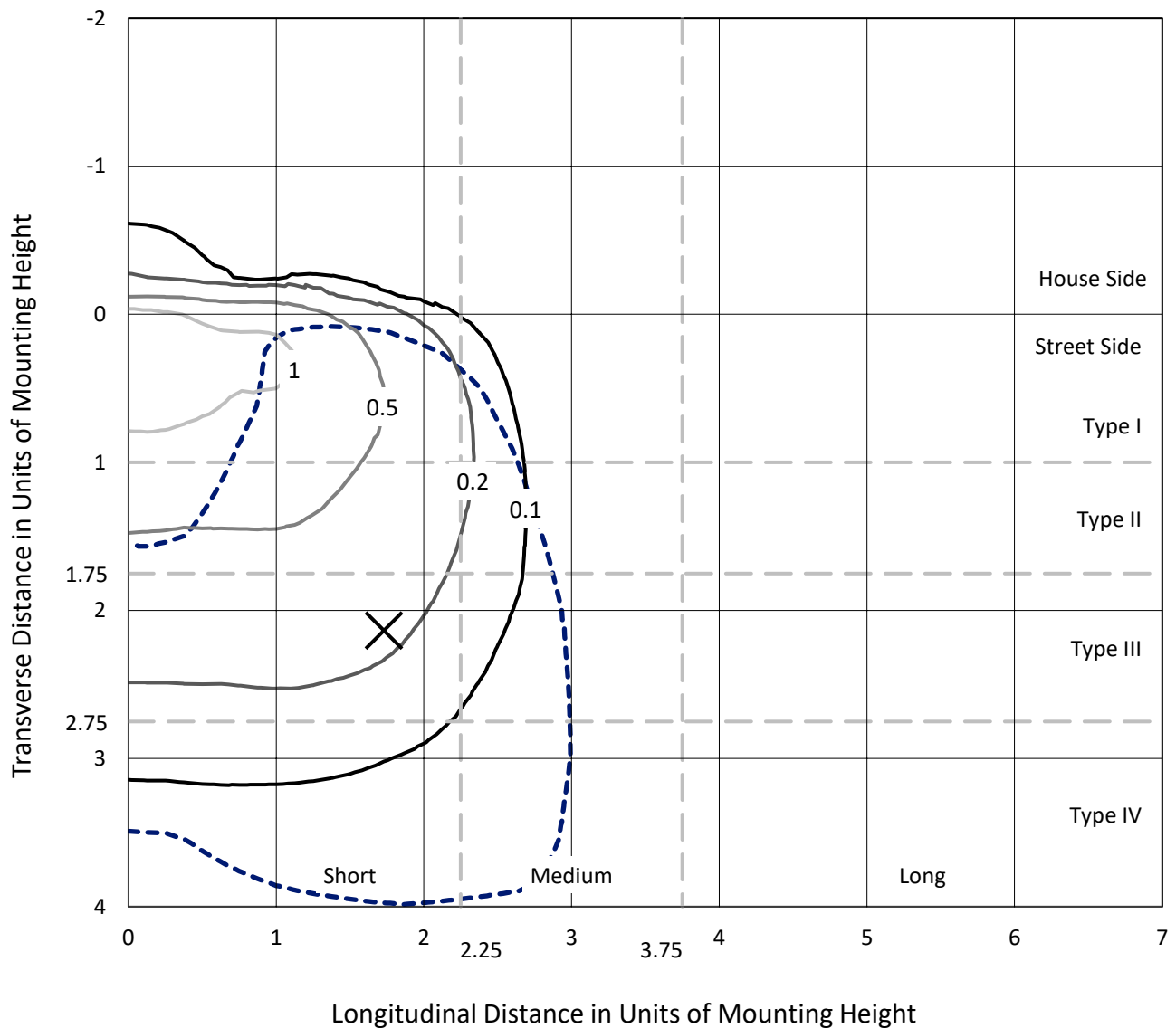
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

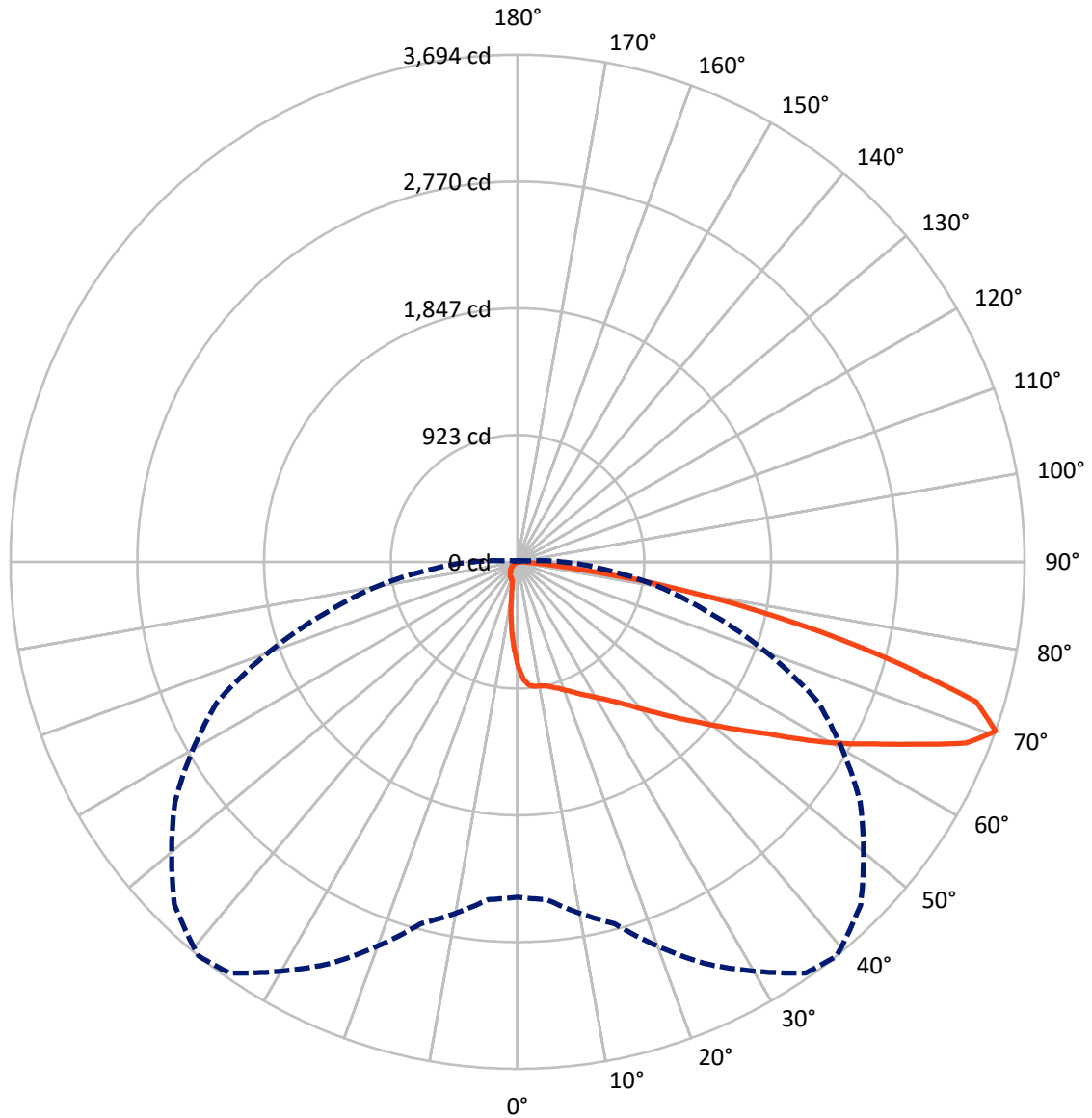
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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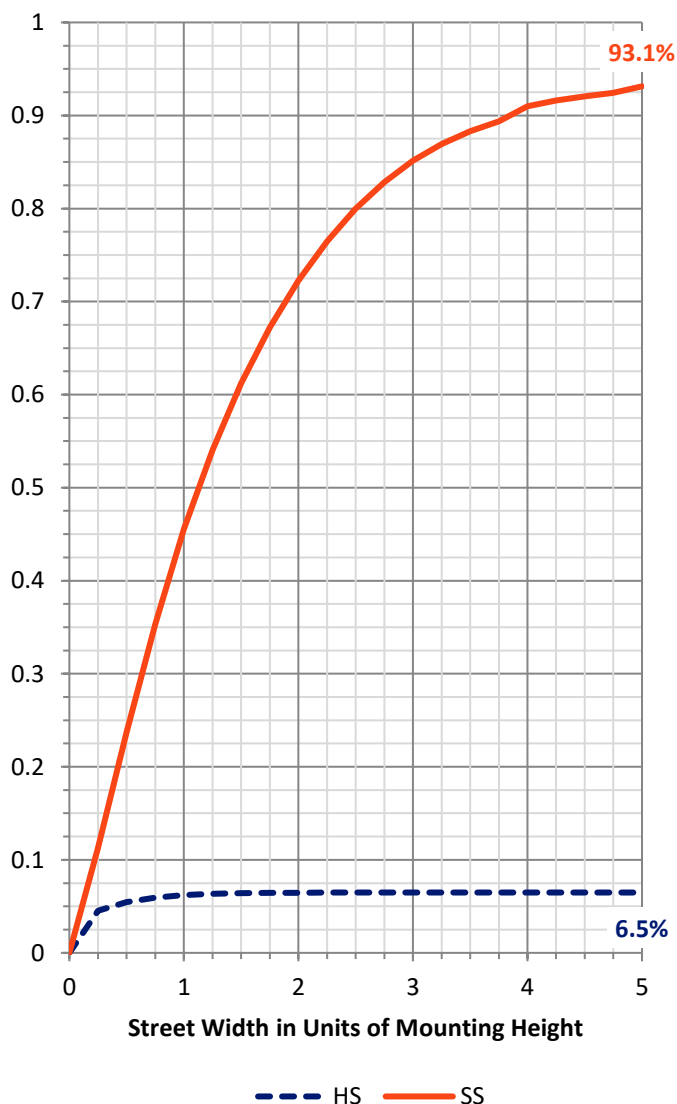
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	320.9	0.0	320.9
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	4600.6	0.0	4600.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	4921.5	0.0	4921.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	1.3
10°-20°	170.2	3.5
20°-30°	285.1	5.8
30°-40°	442.2	9.0
40°-50°	700.8	14.2
50°-60°	1027.3	20.9
60°-70°	1316.7	26.8
70°-80°	827.4	16.8
80°-90°	86.2	1.8
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°	4921.5	100.0
0°-180°	4921.5	100.0

Coefficient of Utilization



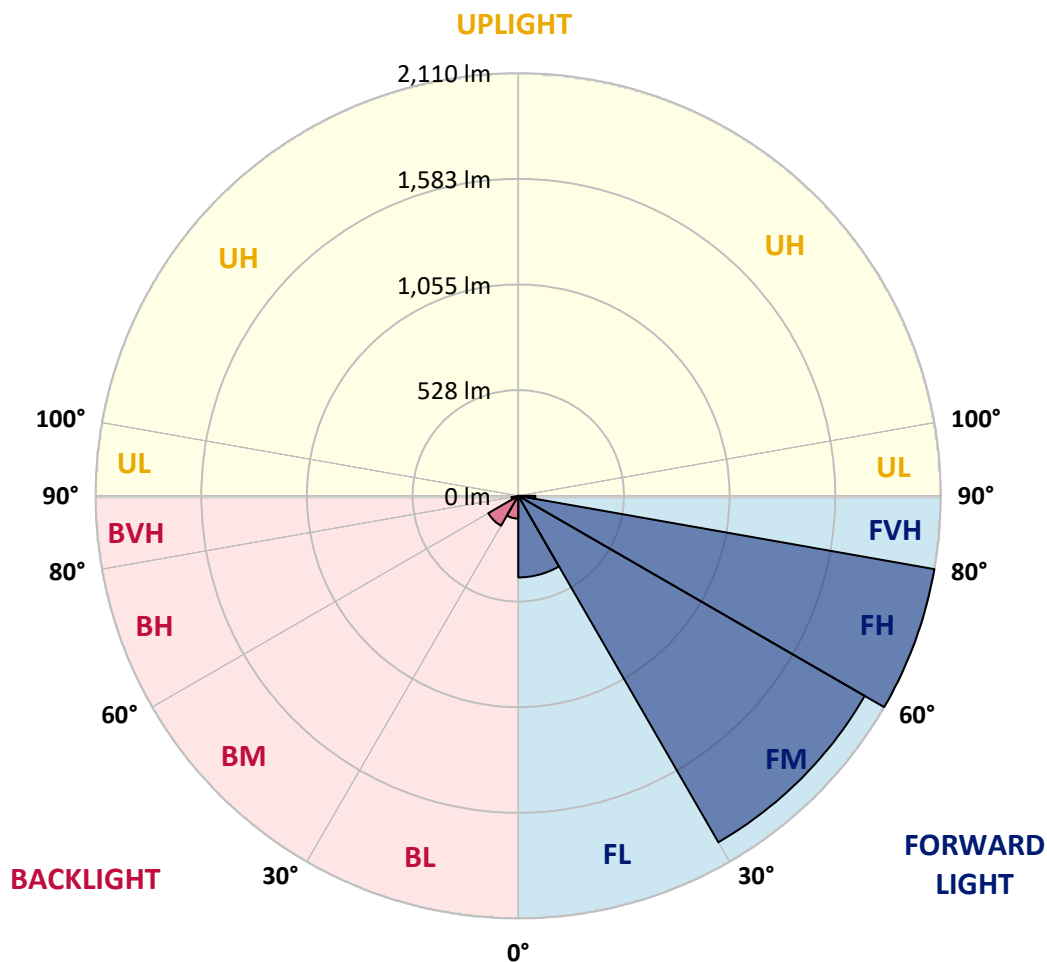
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	407.2	8.3			
FM (30°-60°)	1997.6	40.6			
FH (60°-80°)	2110.2	42.9			G2/5000
FVH (80°-90°)	85.6	1.7			G1/100
BL (0°-30°)	113.6	2.3	B1/500		
BM (30°-60°)	172.7	3.5	B0/220		
BH (60°-80°)	33.9	0.7	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	767.9	767.9	767.9	767.9	767.9	767.9	767.9	767.9	767.9	767.9	767.9
2.5°	887.3	884.3	880.4	875.7	862.5	860.2	852.3	835.4	815.2	798.7	775.9
5°	929.3	931.0	928.0	919.7	910.1	904.5	894.6	868.5	842.3	809.0	771.5
7.5°	938.9	942.3	938.6	930.7	921.4	915.4	907.5	885.0	854.5	816.5	765.3
10°	937.9	941.9	939.6	932.3	924.7	919.0	910.5	892.6	868.2	828.1	767.2
12.5°	936.3	941.6	941.2	937.5	931.3	927.0	921.7	905.8	883.0	845.0	778.2
15°	931.7	938.2	944.2	947.2	947.5	947.5	940.9	924.0	902.2	867.2	792.4
17.5°	933.6	941.2	956.1	964.7	970.7	970.0	963.0	944.9	920.7	889.9	807.3
20°	945.9	956.1	976.9	994.1	1000.1	998.1	988.8	967.7	940.2	909.5	821.8
22.5°	976.0	985.2	1011.3	1031.5	1035.8	1030.5	1017.3	988.5	963.7	930.7	839.4
25°	1020.9	1031.8	1056.0	1071.2	1071.2	1068.2	1049.7	1015.9	990.2	960.1	862.2
27.5°	1075.5	1084.7	1108.6	1122.1	1114.2	1105.6	1087.1	1046.4	1021.6	997.1	889.6
30°	1130.7	1136.7	1161.8	1167.7	1159.5	1148.6	1128.7	1088.1	1066.2	1047.4	929.3
32.5°	1183.0	1195.9	1216.7	1215.4	1204.1	1198.8	1180.7	1137.4	1125.1	1123.2	984.9
35°	1235.3	1245.2	1263.7	1268.3	1258.4	1257.4	1244.2	1212.0	1212.4	1225.3	1071.5
37.5°	1280.2	1289.2	1311.0	1321.2	1323.2	1328.2	1322.9	1301.7	1331.8	1367.2	1186.3
40°	1317.9	1330.5	1358.3	1376.1	1396.6	1414.8	1415.8	1420.4	1480.9	1541.8	1336.1
42.5°	1347.4	1364.9	1405.2	1438.3	1485.3	1508.4	1526.9	1552.4	1654.2	1745.2	1512.7
45°	1385.7	1405.9	1456.2	1508.1	1581.5	1619.5	1645.3	1713.5	1857.9	1982.0	1693.9
47.5°	1449.2	1459.8	1511.0	1586.8	1683.3	1737.6	1787.9	1891.1	2076.6	2187.7	1844.7
50°	1530.9	1537.9	1576.5	1681.7	1806.7	1878.1	1969.8	2091.1	2303.4	2358.3	1930.1
52.5°	1621.2	1623.5	1652.6	1786.2	1945.0	2034.9	2137.4	2287.3	2488.4	2480.0	1986.6
55°	1726.0	1722.7	1747.5	1899.7	2108.6	2211.5	2330.9	2488.0	2648.7	2566.4	2019.1
57.5°	1846.1	1837.2	1861.3	2050.1	2318.3	2441.3	2562.7	2661.3	2773.1	2638.8	2034.5
60°	1971.7	1953.9	1982.7	2219.1	2565.4	2682.1	2783.0	2809.4	2904.1	2696.3	2007.8
62.5°	2072.0	2072.3	2125.9	2399.0	2819.4	2921.5	2975.1	2998.9	3016.8	2683.8	1866.9
65°	2228.4	2233.7	2319.3	2648.7	3113.4	3202.0	3238.7	3161.3	3021.8	2527.7	1655.3
67.5°	2389.8	2406.6	2563.4	2992.7	3453.1	3524.5	3477.2	3192.8	2886.8	2171.5	1255.1
70°	2442.3	2470.1	2728.5	3229.4	3656.8	3693.8	3533.7	3046.3	2413.2	1451.8	631.7
72.5°	2238.0	2283.0	2633.5	3143.2	3526.8	3494.7	3161.7	2554.8	1534.2	551.3	192.8
75°	1578.2	1598.1	2188.7	2607.4	2836.6	2745.6	2405.0	1647.0	631.0	154.7	66.1
77.5°	814.9	805.3	1301.7	1730.0	2023.0	1928.7	1574.9	852.6	239.1	64.5	41.0
80°	421.3	428.3	563.2	906.5	1234.9	1136.4	839.7	395.2	127.3	35.7	31.5
82.5°	236.2	221.6	323.8	395.9	577.4	452.8	322.1	279.8	55.6	21.5	29.8
85°	43.0	45.0	177.6	214.0	200.4	127.3	103.9	186.9	16.2	11.9	20.9
87.5°	0.7	0.7	34.4	61.5	39.0	17.8	32.7	26.8	3.3	4.6	3.6
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°	767.9	767.9	767.9	767.9	767.9	767.9	767.9	767.9	767.9	767.9	767.9
2.5°	764.3	751.7	728.2	705.1	675.7	651.5	635.3	618.5	601.2	602.6	606.5
5°	751.1	729.2	682.9	633.9	587.0	544.7	503.0	465.7	450.4	436.6	437.2
7.5°	737.8	707.1	639.2	562.5	491.5	419.3	367.1	324.1	301.2	284.1	279.1
10°	731.8	691.2	599.3	493.8	392.9	314.2	247.1	212.0	184.9	176.3	178.6
12.5°	734.5	683.2	563.2	431.6	311.5	218.9	172.0	154.2	148.2	147.2	146.5
15°	739.5	677.7	527.8	362.8	228.8	162.7	144.5	141.2	140.5	139.9	140.2
17.5°	746.1	672.7	490.1	298.3	175.6	142.2	136.9	135.2	134.9	134.9	134.9
20°	752.7	667.1	448.1	240.8	146.5	134.3	130.9	129.9	129.7	129.7	129.3
22.5°	760.3	662.1	405.4	189.1	134.9	128.7	125.6	125.0	124.7	124.4	124.4
25°	771.2	655.8	360.1	154.7	127.7	123.4	120.3	119.8	119.4	118.1	118.4
27.5°	785.7	651.2	313.5	133.6	121.0	116.7	114.8	113.8	113.1	112.1	112.4
30°	805.6	647.2	263.9	122.0	113.5	109.8	107.8	107.1	106.5	105.5	105.5
32.5°	840.0	648.8	211.7	112.8	106.5	102.2	100.2	99.6	98.9	97.9	97.9
35°	891.6	658.4	169.3	104.9	98.2	93.9	91.9	91.9	90.9	89.7	89.3
37.5°	976.0	682.9	135.9	97.2	90.3	86.3	84.0	83.3	82.3	80.4	80.1
40°	1075.5	721.0	114.5	89.7	83.0	79.1	77.0	75.1	72.4	70.5	70.1
42.5°	1200.5	760.0	99.2	82.0	76.0	72.4	70.1	66.8	62.8	60.2	59.9
45°	1330.8	795.7	89.0	75.1	69.5	66.4	63.8	58.5	53.6	50.3	50.0
47.5°	1428.0	802.3	80.7	68.5	63.8	60.9	57.2	50.6	44.0	41.0	40.0
50°	1474.0	770.3	72.1	61.8	58.2	54.9	50.3	42.6	35.4	31.8	31.1
52.5°	1490.3	714.7	65.2	55.9	52.6	48.6	43.0	34.4	27.8	24.1	23.8
55°	1483.6	644.5	58.9	50.3	46.0	41.4	35.7	27.4	20.5	17.5	16.9
57.5°	1448.9	555.3	52.6	44.7	39.4	34.7	28.4	20.5	13.9	11.3	10.9
60°	1355.3	433.5	46.3	38.3	33.4	28.4	22.5	14.5	8.6	6.3	6.3
62.5°	1197.2	321.8	40.4	32.0	28.1	22.8	15.9	9.3	4.6	3.3	2.9
65°	1000.5	237.4	33.7	27.1	23.5	17.8	11.3	5.6	2.4	1.0	0.7
67.5°	698.1	146.5	28.1	22.1	19.2	12.9	7.0	2.4	1.0	0.0	0.0
70°	317.1	69.8	21.5	16.9	14.5	9.3	3.6	1.3	0.7	0.0	0.0
72.5°	98.6	36.8	15.2	12.3	9.9	6.0	2.0	1.0	0.7	0.0	0.0
75°	45.7	23.5	9.6	6.6	5.6	2.9	1.3	0.7	0.3	0.0	0.0
77.5°	34.1	18.2	5.6	3.6	2.9	2.0	1.0	0.7	0.3	0.0	0.0
80°	29.8	9.3	3.3	2.4	1.7	1.3	0.7	0.3	0.0	0.0	0.0
82.5°	26.8	4.6	2.0	1.3	1.0	0.7	0.3	0.3	0.0	0.0	0.0
85°	14.5	2.6	1.3	1.0	0.7	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	2.6	1.3	1.0	0.7	0.7	0.3	0.3	0.3	0.0	0.0	0.0
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)