

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: P650703

Luminaire Tested: **GALN-SA1C-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
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-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4789.5 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

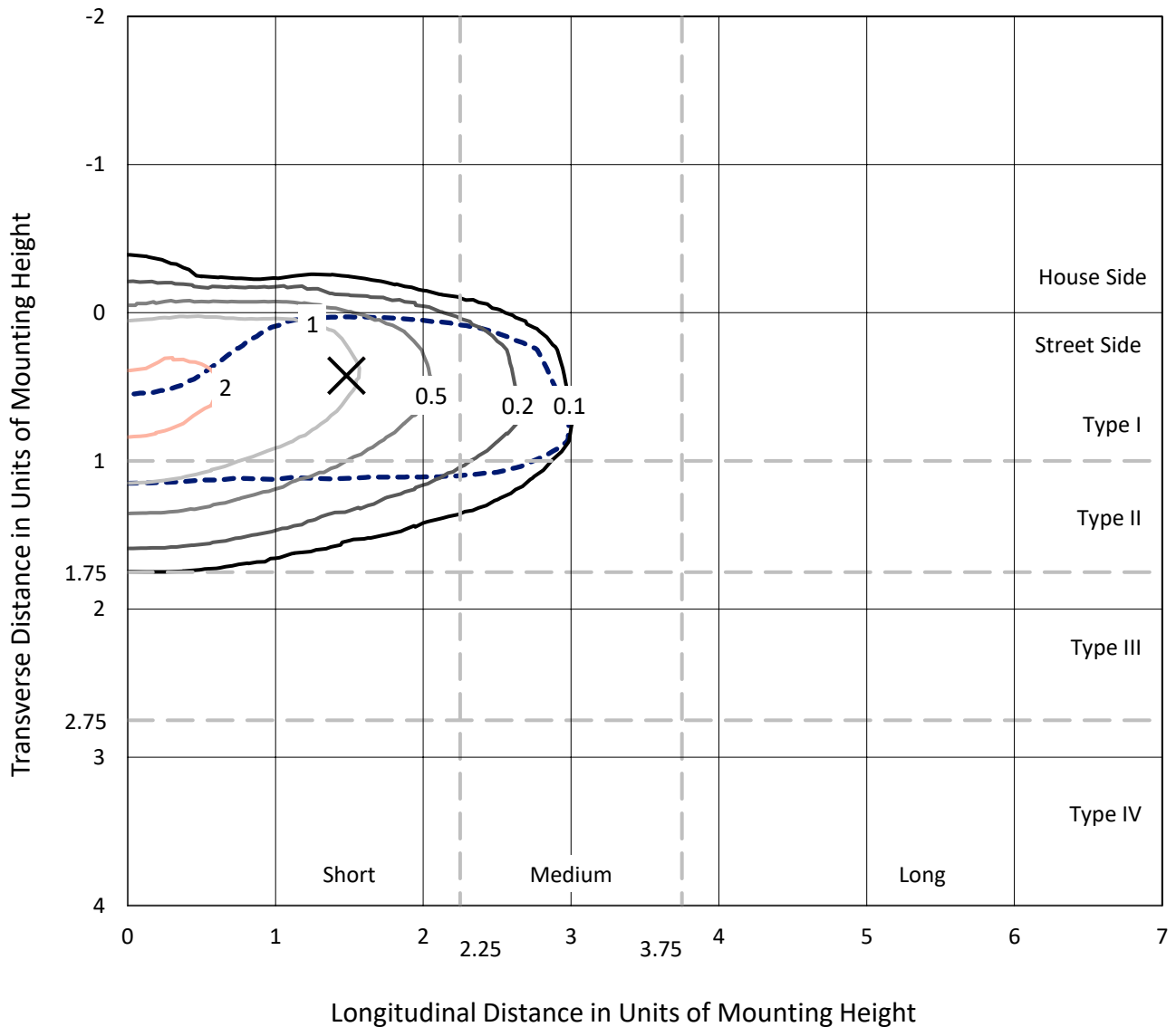
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650703
 CATALOG NUMBER: GALN-SA1C-840-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

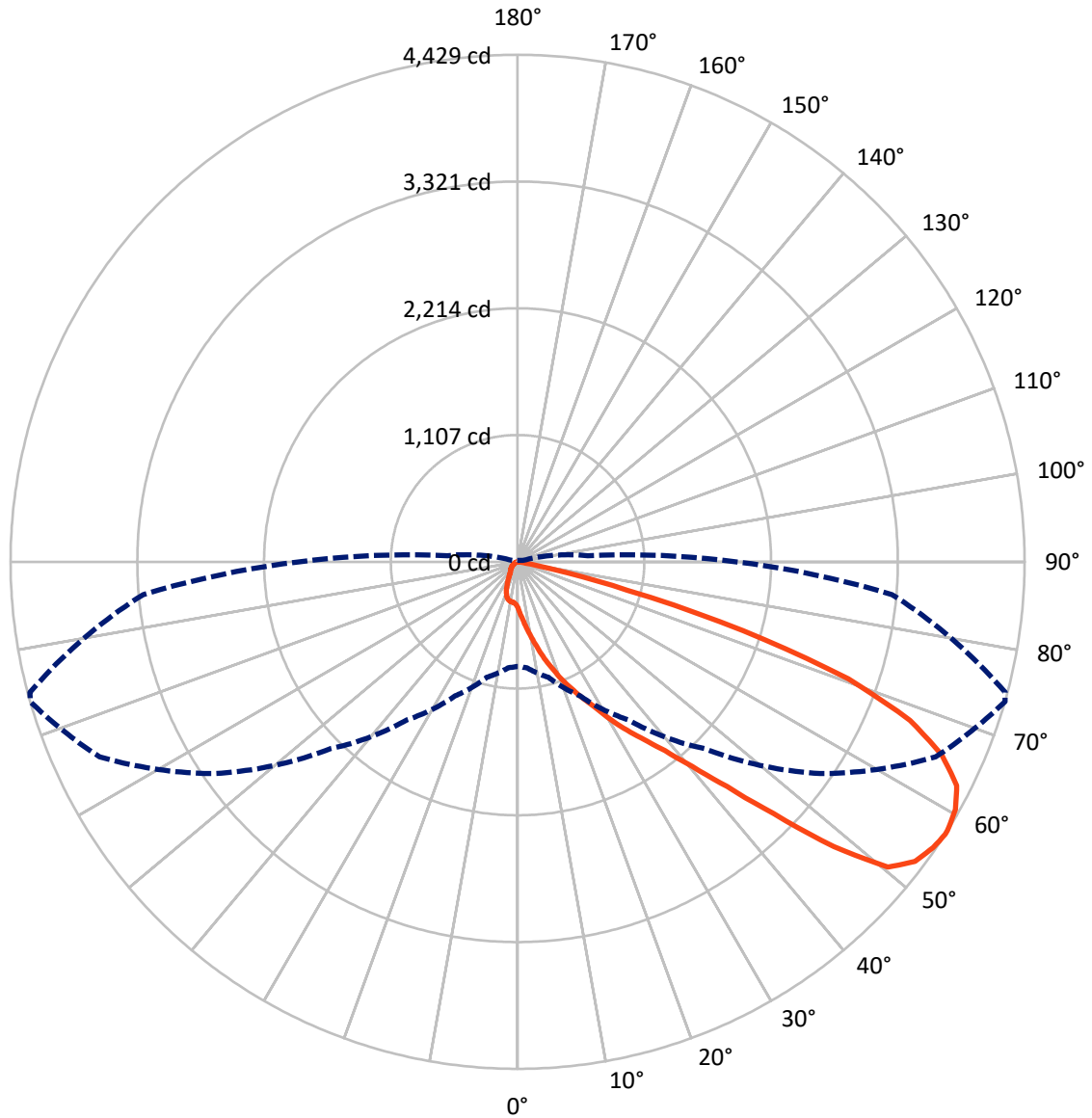
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

REPORT NUMBER: P650703
CATALOG NUMBER: GALN-SA1C-840-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P650703
 CATALOG NUMBER: GALN-SA1C-840-U-T2R-HSS

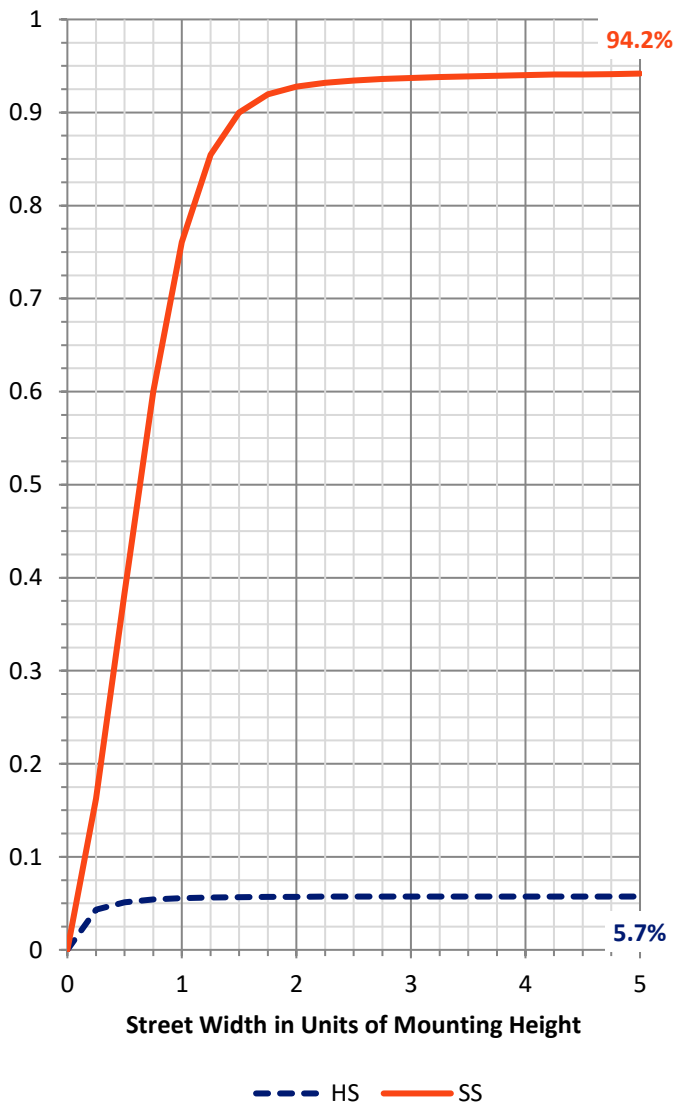
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	276.3	0.0	276.3
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	4513.3	0.0	4513.3
	% Fixture	94.2	0.0	94.2
Total	Lumens	4789.5	0.0	4789.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	1.0
10°-20°	190.8	4.0
20°-30°	408.3	8.5
30°-40°	750.5	15.7
40°-50°	1150.6	24.0
50°-60°	1217.1	25.4
60°-70°	794.8	16.6
70°-80°	217.2	4.5
80°-90°	11.7	0.2
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°	4789.5	100.0
0°-180°	4789.5	100.0

Coefficient of Utilization

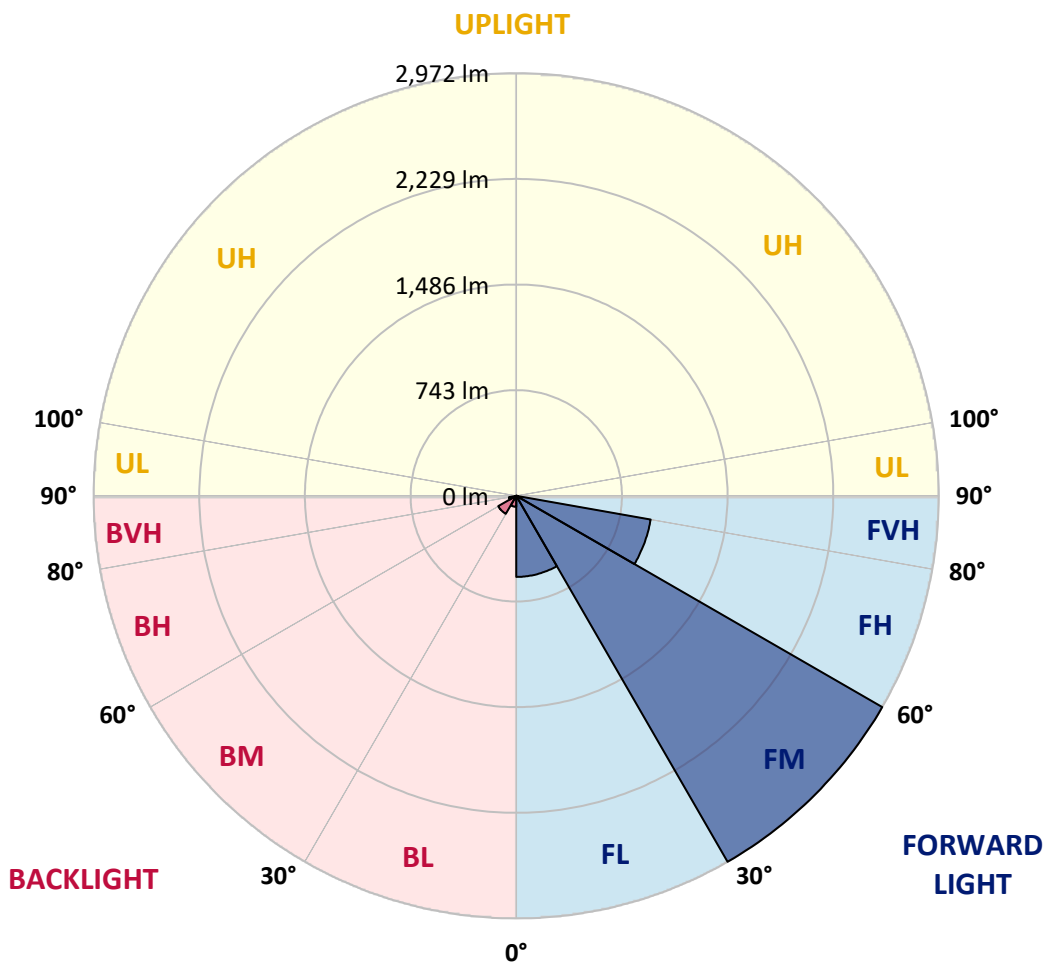


REPORT NUMBER: P650703
 CATALOG NUMBER: GALN-SA1C-840-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	570.4	11.9			
FM (30°-60°)	2972.0	62.1			
FH (60°-80°)	960.1	20.0			G1/1800
FVH (80°-90°)	10.7	0.2			G1/100
BL (0°-30°)	77.2	1.6	B0/110		
BM (30°-60°)	146.3	3.1	B0/220		
BH (60°-80°)	51.9	1.1	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			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 II Short





REPORT NUMBER: P650703

CATALOG NUMBER: GALN-SA1C-840-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	401.1	401.1	401.1	401.1	401.1	401.1	401.1	401.1	401.1	401.1	401.1
2.5°	586.9	581.6	571.1	567.4	551.9	527.7	506.6	478.2	455.7	453.4	426.2
5°	786.0	774.1	769.2	745.4	708.0	673.0	612.8	567.1	514.5	510.6	456.0
7.5°	977.8	961.3	956.3	933.8	890.2	834.9	756.9	673.9	590.6	583.0	496.0
10°	1116.7	1119.0	1110.1	1095.2	1059.8	1003.6	907.4	794.0	675.2	665.7	541.0
12.5°	1216.3	1215.9	1217.6	1217.3	1198.3	1155.7	1054.5	923.9	768.5	749.7	592.6
15°	1281.0	1282.0	1287.0	1304.2	1306.2	1279.7	1195.4	1048.2	876.7	853.2	648.5
17.5°	1346.5	1353.5	1361.4	1377.6	1392.2	1381.6	1322.1	1177.9	974.6	957.0	708.3
20°	1454.7	1464.3	1459.6	1469.6	1477.1	1478.1	1432.1	1297.6	1093.2	1063.8	776.7
22.5°	1627.6	1627.3	1615.4	1597.5	1582.6	1582.0	1540.3	1420.6	1201.0	1172.6	845.5
25°	1846.2	1847.2	1824.0	1773.1	1736.1	1690.7	1642.8	1528.4	1316.4	1281.3	918.0
27.5°	2096.9	2090.6	2055.5	1985.4	1912.0	1834.6	1765.5	1653.7	1438.8	1409.7	1001.0
30°	2322.0	2319.7	2278.7	2193.1	2096.5	2018.8	1918.6	1810.8	1597.1	1561.5	1093.9
32.5°	2531.7	2535.0	2478.1	2389.4	2296.3	2206.6	2100.8	1961.0	1752.6	1702.0	1195.1
35°	2695.4	2698.7	2639.8	2566.1	2470.2	2395.8	2294.9	2121.0	1906.0	1863.4	1311.5
37.5°	2782.7	2787.0	2752.9	2697.3	2637.5	2600.1	2506.2	2327.0	2092.6	2066.8	1449.0
40°	2799.2	2804.1	2789.3	2774.4	2771.1	2797.8	2770.4	2569.7	2351.1	2310.8	1654.1
42.5°	2749.6	2756.2	2762.9	2795.9	2863.4	2961.6	3057.1	2899.1	2684.1	2629.9	1904.7
45°	2619.3	2618.6	2644.8	2730.4	2881.5	3091.2	3356.8	3311.4	3137.9	3073.4	2258.8
47.5°	2396.4	2393.1	2449.7	2571.7	2807.2	3115.0	3601.1	3812.1	3716.8	3657.3	2639.5
50°	2056.8	2073.1	2162.0	2332.3	2622.3	3042.9	3676.5	4140.4	4192.0	4128.9	2947.0
52.5°	1659.0	1658.4	1797.9	2029.1	2348.5	2884.2	3624.0	4200.0	4346.5	4298.2	3098.5
55°	1227.8	1236.4	1381.6	1614.7	1993.0	2594.5	3452.3	4138.8	4405.3	4371.3	3198.3
57°	913.3	928.5	1044.9	1291.6	1683.5	2307.8	3223.8	4029.3	4428.5	4410.0	3281.3
57.5°	852.5	853.2	966.6	1190.8	1592.9	2197.7	3158.3	3983.7	4427.8	4417.5	3294.9
60°	524.8	541.4	619.7	804.8	1166.0	1715.2	2719.5	3721.4	4393.4	4408.3	3352.7
62.5°	314.1	321.1	372.0	485.1	751.6	1251.9	2225.5	3385.9	4303.8	4349.1	3348.8
65°	202.0	203.7	226.8	293.7	469.9	846.2	1714.9	2942.4	4072.0	4155.3	3217.8
67.5°	156.1	158.7	167.9	192.8	272.5	527.1	1212.9	2469.2	3697.0	3804.4	2900.4
70°	138.5	139.9	143.2	151.1	180.2	297.6	754.6	1928.8	3065.7	3096.1	2269.8
72.5°	113.1	116.7	127.0	129.6	142.9	185.9	420.0	1294.6	2059.8	2067.4	1269.8
75°	87.6	88.3	103.5	111.1	120.3	128.0	187.5	652.8	989.4	936.5	489.4
77.5°	65.5	68.5	75.4	85.0	98.2	91.6	84.0	246.0	307.2	301.6	142.2
80°	42.0	43.6	52.6	63.8	76.4	59.9	47.3	72.1	67.4	69.5	34.1
82.5°	21.2	21.5	33.7	51.9	48.6	30.1	29.8	29.4	25.1	24.8	15.9
85°	2.4	5.0	21.9	29.8	21.9	9.9	13.9	13.5	13.2	13.5	9.3
87.5°	0.3	0.3	3.6	4.3	2.9	3.3	4.0	4.3	5.3	5.0	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P650703
 CATALOG NUMBER: GALN-SA1C-840-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	401.1	401.1	401.1	401.1	401.1	401.1	401.1	401.1	401.1	401.1	401.1
2.5°	413.0	399.8	375.3	351.9	334.3	323.1	308.6	303.3	295.6	294.6	291.0
5°	430.8	405.8	363.1	329.3	302.3	281.7	263.9	249.0	237.1	234.5	235.7
7.5°	456.3	419.0	359.4	313.5	275.8	240.7	212.3	194.8	182.2	177.5	178.2
10°	485.1	436.5	358.8	296.6	239.1	196.1	165.0	149.4	142.2	139.5	136.6
12.5°	519.1	456.7	357.2	270.5	198.7	156.4	134.2	125.0	118.1	116.1	116.1
15°	557.5	478.2	349.2	238.1	161.4	129.3	114.4	107.1	104.8	102.9	102.9
17.5°	597.5	499.3	332.7	198.1	133.9	110.8	101.5	97.2	93.9	91.6	91.6
20°	643.2	520.2	306.2	162.7	113.1	98.9	91.6	86.6	84.0	82.0	81.3
22.5°	686.5	537.1	272.5	133.6	98.6	89.0	82.3	77.0	74.4	73.4	73.4
25°	731.5	547.2	231.8	110.4	89.9	80.7	73.4	69.1	66.8	66.1	65.8
27.5°	775.1	553.2	196.1	96.5	82.0	73.1	66.1	62.8	60.6	59.9	60.2
30°	828.0	554.2	161.4	86.6	75.1	65.8	59.5	56.5	55.3	54.6	54.2
32.5°	881.6	552.9	135.6	80.7	68.5	59.5	54.2	51.9	51.0	50.0	50.0
35°	941.8	546.0	115.4	74.8	62.1	54.2	49.6	47.6	46.3	45.3	45.0
37.5°	1016.5	542.3	103.9	68.1	56.5	49.3	45.0	43.0	42.0	40.7	40.4
40°	1134.3	558.5	100.2	62.1	51.0	44.7	40.7	38.3	37.0	35.7	35.4
42.5°	1281.0	586.9	94.3	56.2	46.0	40.4	36.4	33.7	31.5	29.8	29.1
45°	1471.2	624.4	85.0	50.0	41.6	35.7	32.0	28.8	25.8	24.5	24.1
47.5°	1670.6	660.4	76.7	45.0	37.0	31.7	27.8	24.1	21.5	20.5	20.2
50°	1792.9	667.7	71.4	39.4	32.4	27.4	23.5	20.2	18.5	17.5	17.5
52.5°	1848.9	656.1	64.2	34.4	28.1	24.1	20.2	17.5	16.6	15.9	15.6
55°	1887.9	638.2	54.6	29.8	24.1	20.5	17.8	15.9	14.5	13.9	13.5
57°	1910.7	614.1	47.3	26.2	20.9	17.8	15.9	14.2	12.9	11.6	11.6
57.5°	1911.7	604.8	45.3	25.8	19.8	17.2	15.6	13.9	12.2	10.9	10.6
60°	1882.2	541.4	36.4	21.9	15.9	14.5	12.9	10.9	8.6	7.3	7.0
62.5°	1787.6	460.6	30.1	18.5	12.9	11.3	9.3	8.2	6.0	4.3	4.3
65°	1644.5	373.7	25.8	14.9	10.6	8.2	6.3	6.0	3.6	2.0	1.7
67.5°	1437.4	291.0	21.9	12.2	8.9	6.0	4.3	4.0	2.0	0.7	0.0
70°	1095.2	198.4	18.2	9.9	6.6	4.3	2.9	2.4	1.3	0.3	0.0
72.5°	631.3	109.2	15.2	7.6	5.0	3.3	2.4	1.3	1.3	0.0	0.0
75°	225.6	46.9	11.6	5.6	4.0	2.6	1.7	0.7	1.0	0.3	0.0
77.5°	71.7	25.1	7.6	4.3	3.3	2.0	1.3	0.7	0.7	0.3	0.0
80°	21.2	13.2	4.6	3.6	2.4	1.7	1.0	0.3	0.7	0.3	0.0
82.5°	11.6	6.6	3.6	2.6	2.4	1.3	1.0	0.3	0.3	0.3	0.0
85°	6.0	4.0	2.9	2.6	2.4	1.3	1.0	0.3	0.0	0.3	0.3
87.5°	3.3	2.9	2.9	2.6	2.4	1.7	1.0	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)