

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: P526463

Luminaire Tested: **GALN-SA1B-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2671 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 44
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



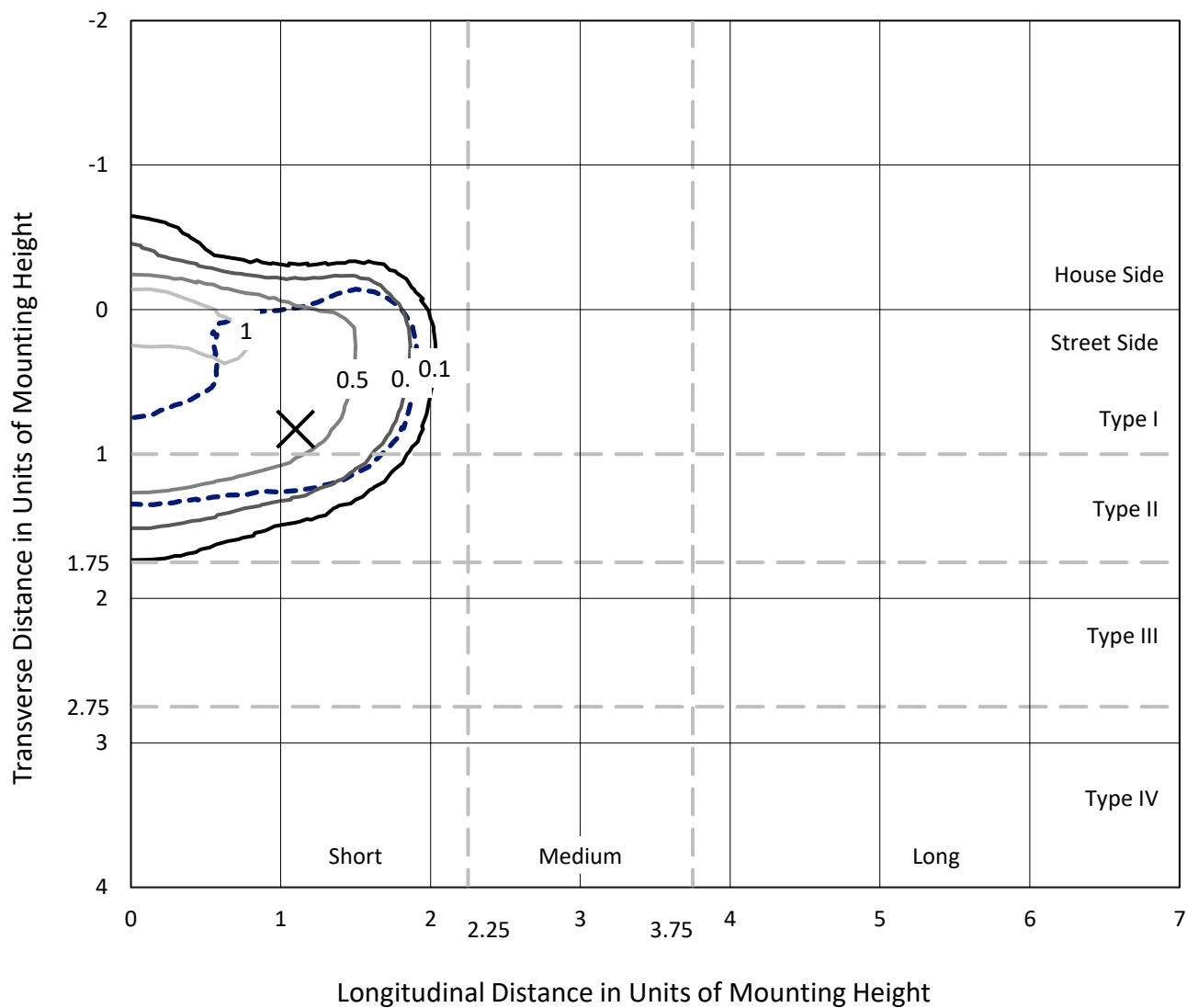
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

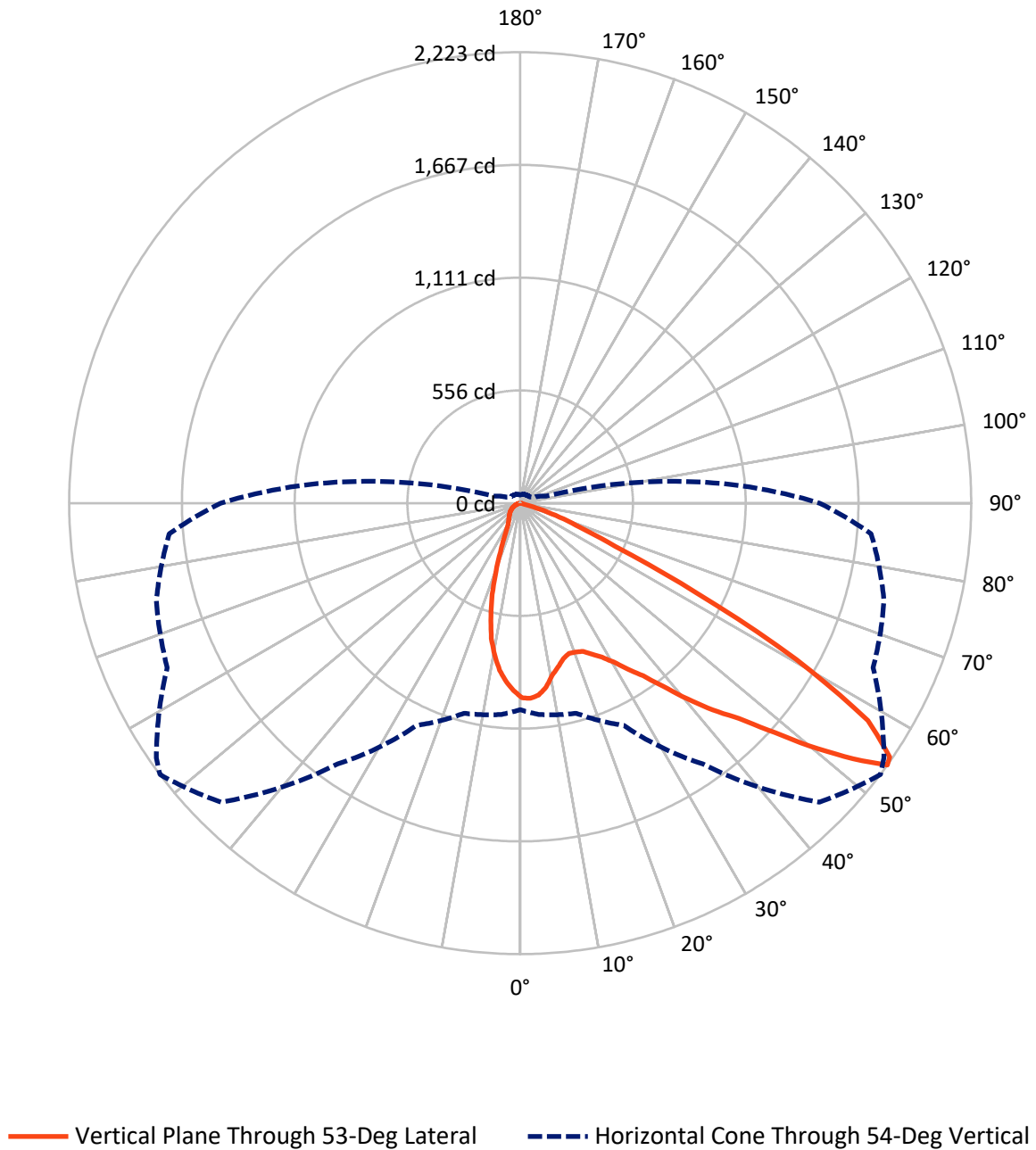
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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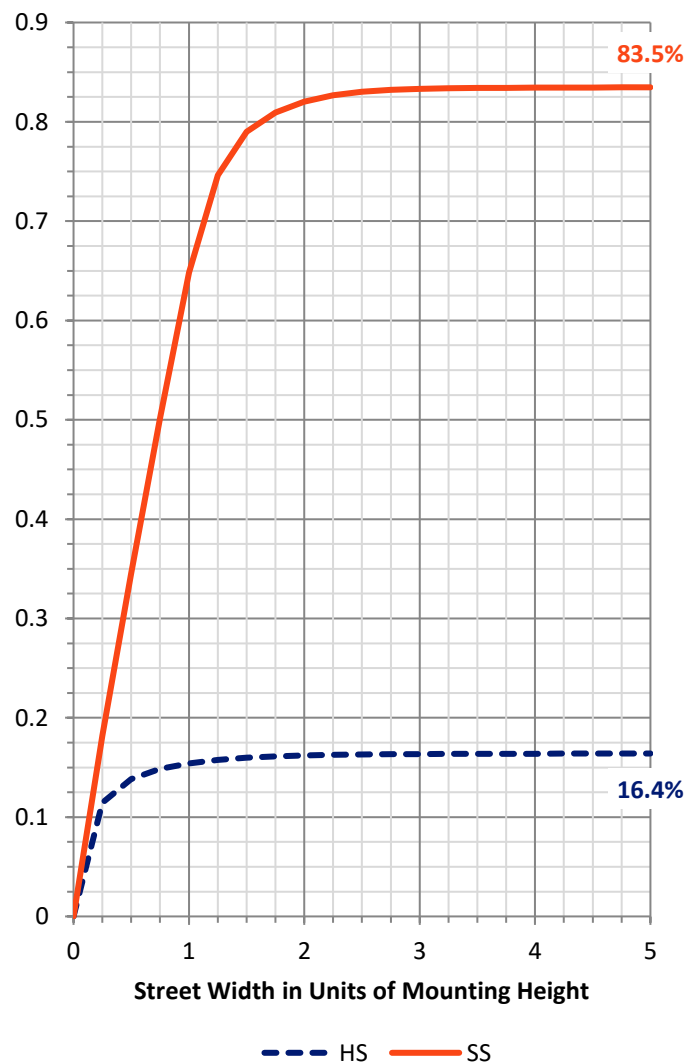
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	441.9	0.0	441.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	2229.1	0.0	2229.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	2671.0	0.0	2671.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	3.1
10°-20°	188.7	7.1
20°-30°	268.2	10.0
30°-40°	413.9	15.5
40°-50°	649.0	24.3
50°-60°	753.9	28.2
60°-70°	284.9	10.7
70°-80°	27.1	1.0
80°-90°	3.1	0.1
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°	2671.0	100.0
0°-180°	2671.0	100.0

Coefficient of Utilization



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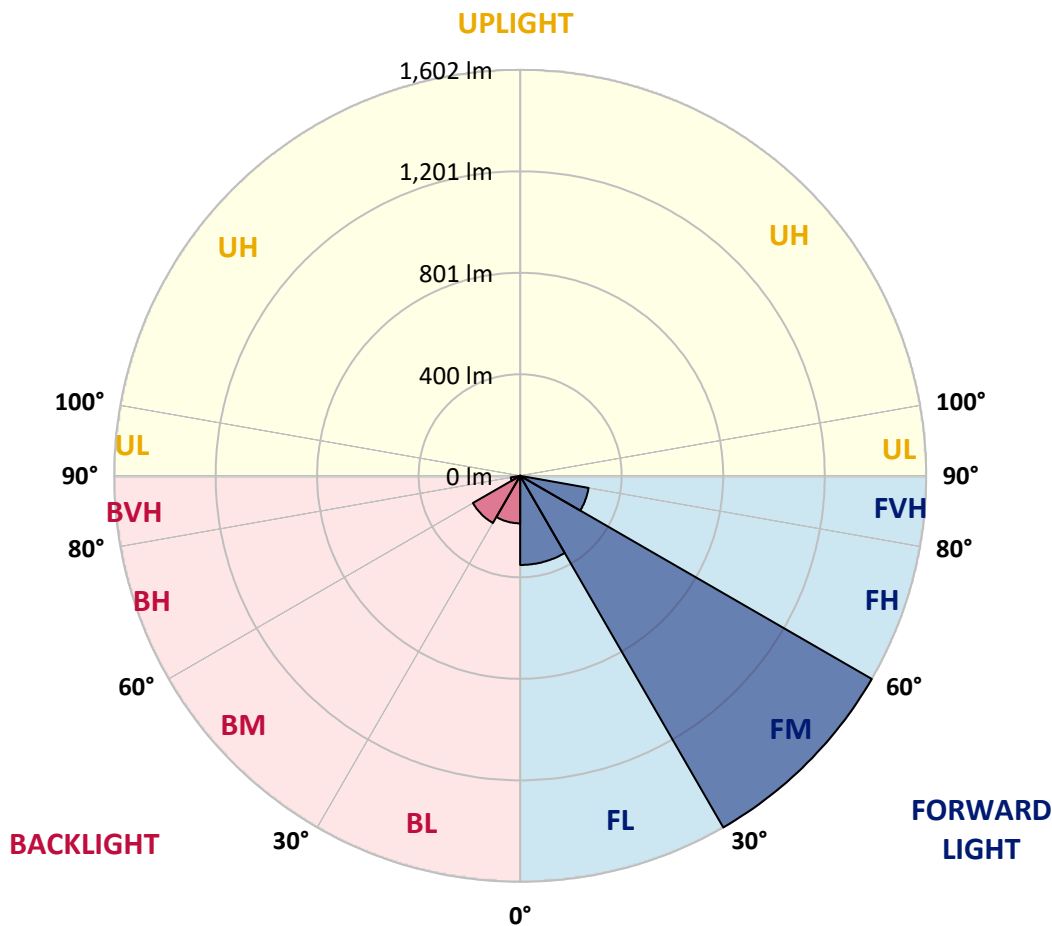
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.7	13.2			
FM	(30°-60°)	1601.7	60.0			
FH	(60°-80°)	274.1	10.3			G0/660
FVH	(80°-90°)	1.6	0.1			G0/10
BL	(0°-30°)	187.5	7.0	B1/500		
BM	(30°-60°)	215.1	8.1	B0/220		
BH	(60°-80°)	37.9	1.4	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: B1-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4
2.5°	954.4	945.9	954.4	955.4	961.4	966.8	963.4	971.3	966.8	961.9	960.4
5°	877.3	888.7	889.2	907.1	903.1	936.0	950.4	946.4	970.8	969.3	965.8
7.5°	808.1	803.6	809.6	830.5	856.9	894.7	915.6	915.1	949.9	974.8	972.3
10°	743.9	743.4	755.9	772.3	794.7	834.5	863.3	877.8	932.0	969.8	975.3
12.5°	700.6	698.6	712.1	725.5	760.8	791.7	828.5	835.5	897.7	952.4	961.4
15°	672.3	676.7	677.7	703.6	726.0	766.8	795.7	810.1	881.8	938.5	972.8
17.5°	667.3	673.3	673.8	695.2	719.0	753.4	778.7	798.2	868.3	945.4	973.3
20°	677.2	673.8	676.7	690.2	713.6	746.4	783.2	789.7	863.8	948.9	978.8
22.5°	705.6	704.6	697.1	708.1	724.5	758.8	793.7	803.6	876.8	966.8	983.3
25°	736.9	742.4	735.5	734.0	745.4	779.2	825.5	838.5	920.1	999.2	997.2
27.5°	795.7	790.2	790.2	783.2	780.2	796.7	859.9	881.3	968.3	1041.0	1013.1
30°	851.9	857.9	853.4	855.9	836.0	834.5	908.6	935.0	1053.9	1104.7	1047.0
32.5°	941.0	933.0	940.5	934.0	907.6	880.8	974.8	1002.2	1157.4	1177.8	1097.7
35°	1015.1	1011.6	1043.5	1042.5	999.7	973.3	1045.0	1085.8	1229.6	1265.4	1157.4
37.5°	1120.6	1114.1	1150.5	1167.9	1129.6	1090.2	1145.5	1192.8	1296.8	1335.6	1218.6
40°	1229.1	1245.5	1294.3	1323.1	1282.3	1230.1	1268.4	1282.8	1341.5	1381.3	1260.4
42.5°	1366.4	1390.3	1440.1	1464.9	1461.5	1404.7	1393.3	1392.8	1373.9	1368.4	1291.3
45°	1498.3	1489.3	1566.0	1620.2	1664.0	1647.6	1513.7	1498.8	1425.1	1387.8	1299.2
47.5°	1556.0	1553.0	1605.3	1701.8	1851.1	1871.5	1688.9	1631.1	1511.7	1469.4	1342.5
50°	1481.4	1496.8	1548.5	1655.5	1884.4	2040.2	1903.8	1826.2	1612.7	1568.9	1445.0
52.5°	1237.5	1248.0	1297.3	1433.1	1771.0	2139.7	2109.8	2065.1	1798.3	1725.7	1623.7
54°	1017.6	1045.5	1072.3	1208.7	1568.9	2084.5	2222.8	2188.5	1919.3	1856.1	1736.1
55°	886.2	902.7	922.1	1057.9	1429.1	1990.9	2209.9	2212.8	2000.4	1896.9	1811.8
57.5°	647.4	658.8	638.9	699.1	981.3	1616.7	2021.3	2101.9	2109.8	1958.1	1858.0
60°	494.6	499.6	477.2	486.7	610.1	1109.7	1563.5	1660.5	1903.3	1711.3	1573.9
62.5°	383.7	384.6	384.1	400.6	420.5	652.9	977.8	1063.9	1312.2	1215.1	1068.9
65°	282.6	278.2	286.1	335.9	358.8	410.5	515.0	577.7	713.1	602.1	430.4
67.5°	183.1	184.6	192.6	249.8	307.5	315.0	317.0	312.0	312.5	172.2	108.0
70°	110.0	112.5	110.0	141.3	219.9	225.9	206.5	201.5	157.2	40.8	40.3
72.5°	65.2	61.7	55.2	60.7	91.6	109.5	98.5	98.0	61.7	23.9	23.9
75°	27.4	24.9	20.4	18.4	24.4	23.4	23.4	20.9	16.4	15.9	14.9
77.5°	5.5	5.5	4.0	4.5	6.0	7.0	8.5	8.5	10.0	10.0	9.5
80°	0.0	0.5	1.5	3.0	4.5	6.5	7.5	7.5	8.5	8.5	7.0
82.5°	0.0	0.5	1.5	3.0	4.0	6.0	7.5	7.5	8.5	9.0	7.5
85°	0.0	0.5	1.5	2.5	4.0	5.0	5.0	4.5	3.5	3.0	2.0
87.5°	0.0	0.0	0.5	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
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°	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4
2.5°	963.9	963.4	951.4	932.0	927.5	911.1	909.1	899.2	904.6	886.2	884.2
5°	955.9	949.9	935.5	923.1	886.7	860.9	840.5	815.6	801.1	803.6	794.2
7.5°	967.3	951.9	926.5	883.2	839.0	793.7	769.3	718.5	700.1	672.8	668.8
10°	955.4	944.0	904.6	833.0	771.8	706.6	649.4	593.1	550.3	531.9	528.0
12.5°	954.4	934.5	868.8	789.2	700.6	607.1	524.0	453.8	411.5	387.6	382.2
15°	939.0	915.1	828.5	721.5	599.1	482.7	392.1	324.4	292.1	278.2	282.1
17.5°	940.5	904.6	788.2	649.9	499.1	354.3	267.7	232.9	224.4	227.9	227.9
20°	939.0	881.3	739.4	567.3	382.2	245.8	196.6	184.1	189.6	200.5	198.0
22.5°	931.0	870.3	694.7	480.2	281.1	182.1	157.7	158.2	166.7	180.1	183.1
25°	937.0	845.9	637.9	392.1	205.0	145.3	136.8	140.3	149.3	159.2	161.2
27.5°	932.5	828.5	578.7	304.5	149.8	124.9	124.4	128.4	132.4	139.8	139.8
30°	937.5	812.6	520.5	226.4	123.4	114.4	112.5	115.4	119.4	120.9	120.4
32.5°	955.9	800.6	453.3	169.2	109.0	104.5	104.5	104.5	104.0	106.0	106.5
35°	996.2	802.6	394.1	130.9	99.5	96.0	94.5	92.6	91.6	92.6	93.1
37.5°	1040.0	801.6	332.9	111.5	92.6	89.6	86.1	83.1	82.6	83.6	82.1
40°	1059.4	811.1	276.2	100.0	86.1	82.6	77.1	74.6	75.1	76.1	75.1
42.5°	1085.8	814.1	239.3	91.1	80.1	74.6	71.2	68.2	67.7	69.2	68.7
45°	1085.3	797.2	200.5	86.1	74.6	68.7	64.2	61.7	61.7	62.7	63.2
47.5°	1117.1	794.7	172.2	81.6	70.7	64.7	59.2	57.2	56.7	56.7	55.7
50°	1191.3	829.5	150.3	76.6	65.7	60.2	55.7	53.2	51.3	50.3	49.8
52.5°	1336.1	938.0	133.4	70.7	60.2	55.7	51.8	49.8	47.3	44.8	44.3
54°	1476.4	1049.9	132.4	65.7	55.7	52.7	49.3	48.3	45.3	41.8	40.8
55°	1539.6	1115.1	135.8	61.7	52.7	50.8	47.8	46.8	43.8	39.8	39.3
57.5°	1591.8	1140.5	133.9	51.3	47.8	47.3	44.8	43.3	39.8	34.3	33.3
60°	1281.3	862.3	96.0	45.3	43.8	42.8	40.8	39.8	35.3	29.4	28.9
62.5°	809.6	496.1	61.2	39.8	38.3	36.8	34.3	33.3	29.4	23.4	21.9
65°	344.8	205.5	41.3	35.3	32.8	30.4	28.4	26.9	23.4	17.4	16.9
67.5°	89.6	73.1	34.3	30.9	27.4	23.9	22.4	19.9	15.9	11.9	11.4
70°	40.3	36.8	28.9	25.9	21.9	18.4	16.4	13.9	10.4	8.0	7.5
72.5°	23.9	23.4	21.9	19.4	16.4	13.9	11.9	9.5	7.0	4.5	4.5
75°	14.9	14.4	14.9	13.4	11.4	10.4	9.0	6.5	4.0	2.0	2.0
77.5°	9.0	9.0	9.0	8.5	8.0	8.0	6.5	4.0	2.0	0.5	0.5
80°	7.0	7.0	7.5	7.0	7.0	7.0	5.5	3.0	1.0	0.0	0.0
82.5°	7.0	7.5	8.5	8.0	7.0	6.0	5.0	3.0	1.0	0.0	0.0
85°	2.0	1.5	2.5	3.5	5.0	4.5	3.5	2.5	1.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	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)