

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: P646746

Luminaire Tested: **GALN-SA1C-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3326.2 lumens
Efficiency: N/A
Efficacy: 58.4 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

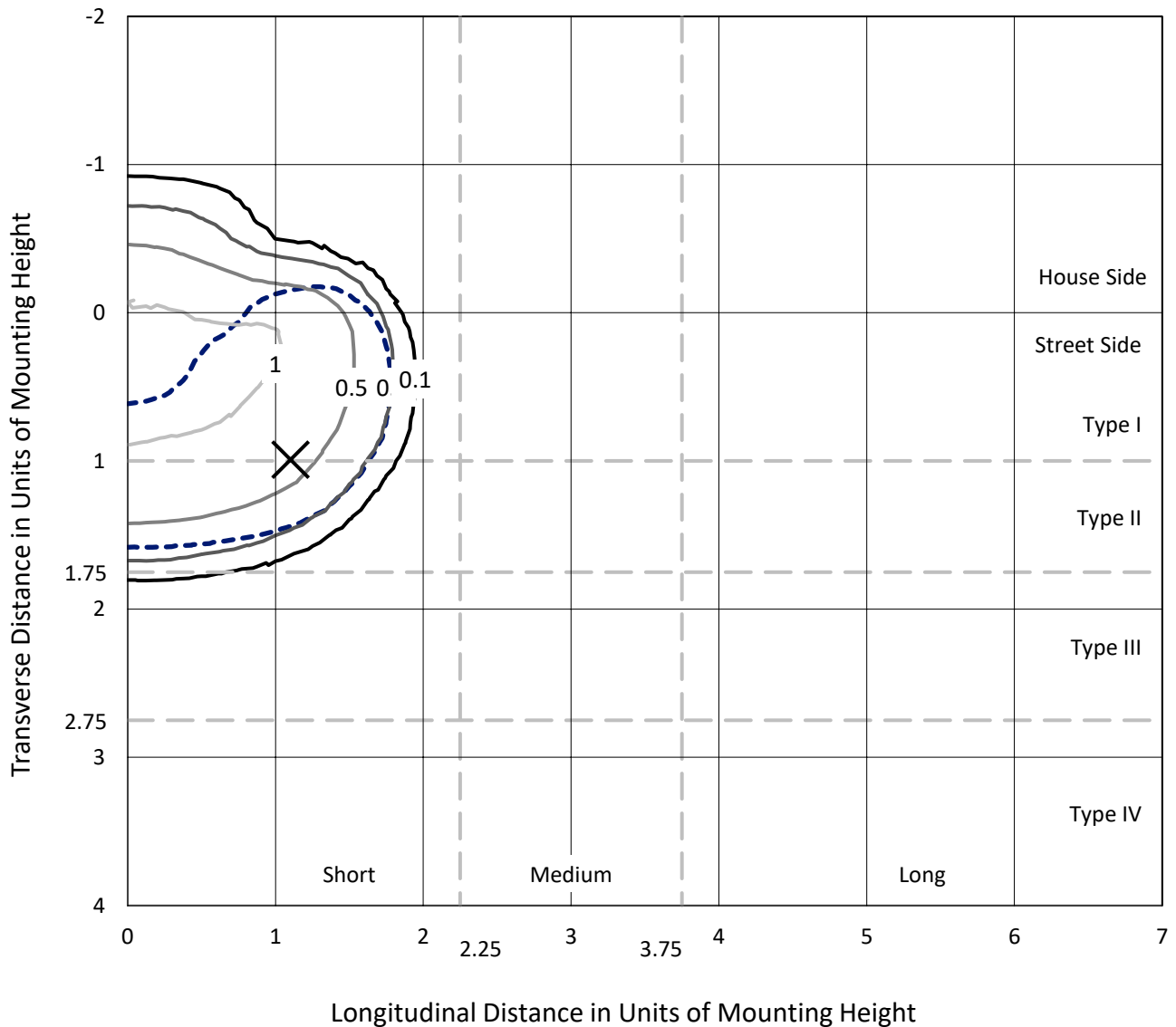
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

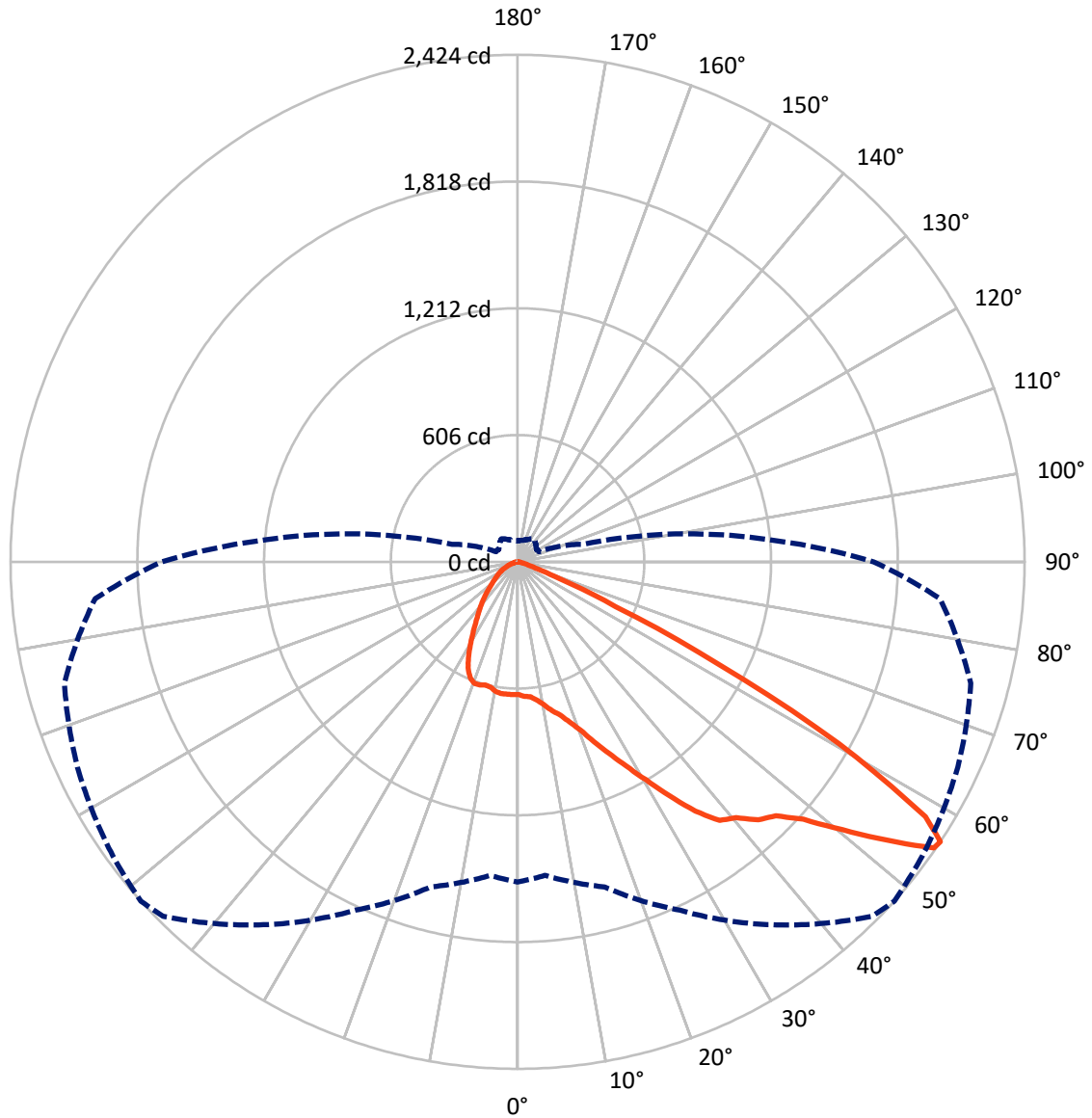
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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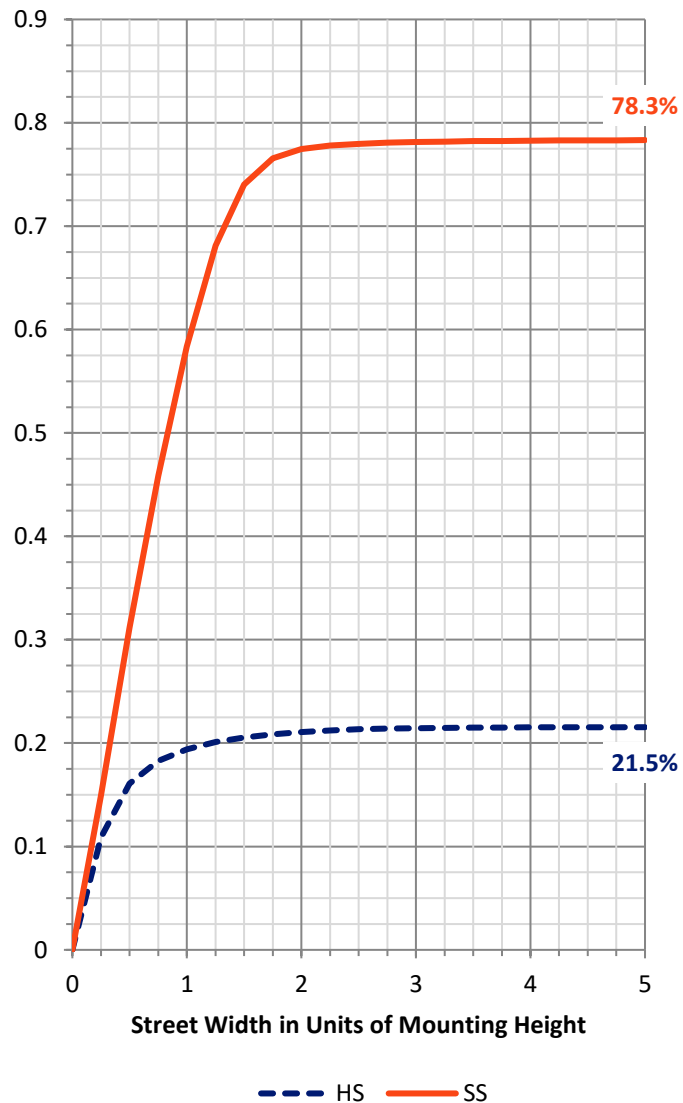
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	723.4	0.0	723.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	2602.8	0.0	2602.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	3326.2	0.0	3326.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.9	1.9
10°-20°	197.8	5.9
20°-30°	358.7	10.8
30°-40°	563.5	16.9
40°-50°	822.0	24.7
50°-60°	990.4	29.8
60°-70°	290.0	8.7
70°-80°	36.8	1.1
80°-90°	5.2	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°	3326.2	100.0
0°-180°	3326.2	100.0

Coefficient of Utilization

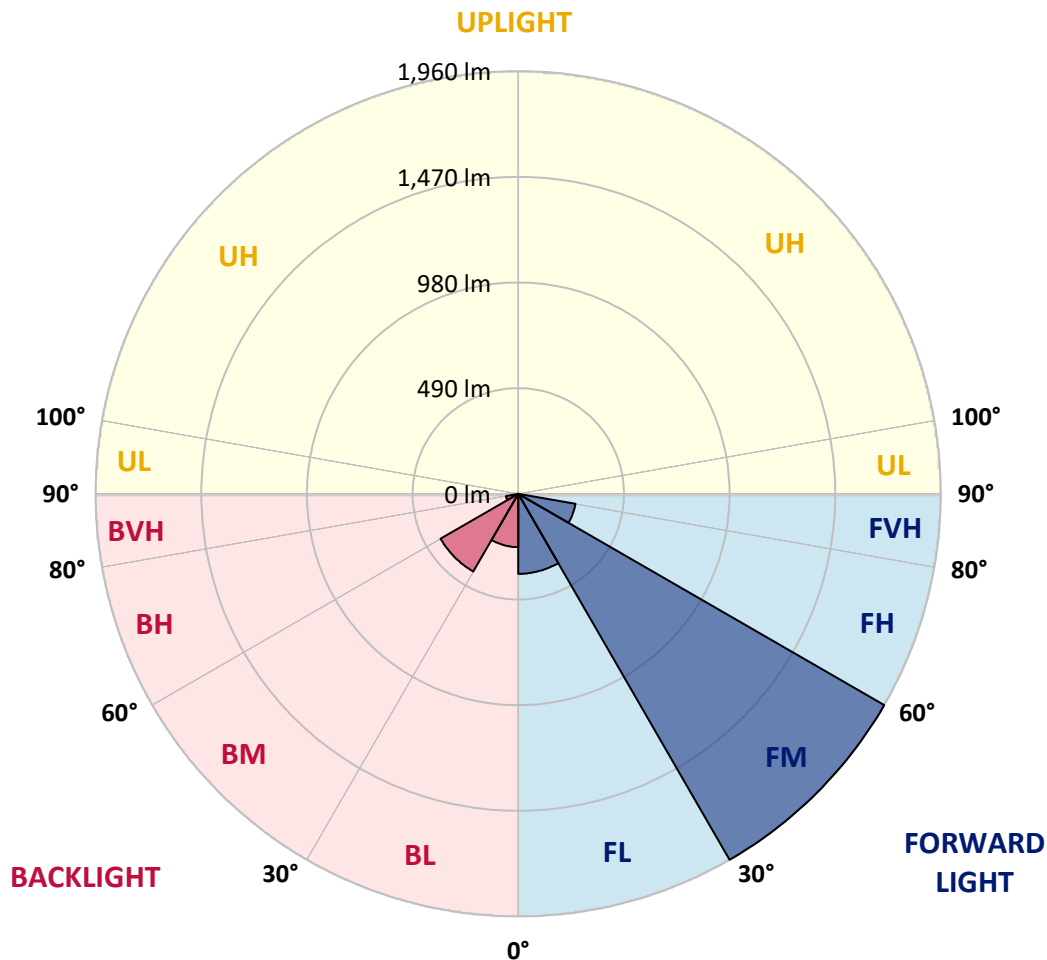


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	371.1	11.2			
FM (30°-60°)	1959.8	58.9			
FH (60°-80°)	269.3	8.1			G0/660
FVH (80°-90°)	2.6	0.1			G0/10
BL (0°-30°)	247.3	7.4	B1/500		
BM (30°-60°)	416.1	12.5	B1/1000		
BH (60°-80°)	57.5	1.7	B0/110		G0/110
BVH (80°-90°)	2.6	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°	48°	55°	65°	75°	85°
0°	635.3	635.3	635.3	635.3	635.3	635.3	635.3	635.3	635.3	635.3	635.3
2.5°	646.8	643.8	643.8	638.9	644.4	642.0	643.8	637.8	643.8	634.7	642.0
5°	649.8	650.4	648.0	651.1	651.1	654.7	648.6	654.0	657.1	650.4	647.4
7.5°	665.6	666.8	666.2	663.7	668.6	668.0	667.4	663.1	664.4	661.9	658.3
10°	696.5	695.9	698.9	692.8	689.2	693.4	694.7	688.0	683.2	681.4	669.9
12.5°	741.3	734.0	729.8	723.7	725.5	719.5	730.4	718.9	716.4	705.6	694.1
15°	777.6	776.4	777.0	767.3	756.5	758.9	758.9	752.8	749.2	735.9	719.5
17.5°	852.1	826.7	832.1	820.0	811.0	810.3	804.8	806.1	796.4	768.5	743.7
20°	910.2	899.4	890.9	870.3	856.4	860.6	858.2	852.1	849.1	812.8	777.6
22.5°	962.3	966.0	952.0	946.6	927.2	929.0	933.9	928.4	905.4	867.9	815.8
25°	1035.6	1031.4	1012.6	1005.9	987.8	994.4	1013.2	1009.0	994.4	926.6	845.5
27.5°	1122.2	1107.7	1111.3	1081.0	1063.5	1082.3	1104.7	1125.9	1084.7	995.7	880.6
30°	1183.4	1168.2	1167.1	1165.8	1161.6	1183.4	1209.4	1228.8	1195.5	1064.7	938.7
32.5°	1213.6	1217.3	1227.6	1224.0	1260.9	1305.7	1333.0	1360.9	1319.0	1177.3	1015.6
35°	1294.2	1271.2	1294.2	1296.6	1334.8	1429.9	1464.4	1531.0	1520.7	1336.6	1109.5
37.5°	1341.4	1339.6	1342.7	1365.7	1402.7	1520.1	1569.2	1620.7	1601.3	1432.3	1226.4
40°	1419.6	1424.4	1423.8	1441.4	1482.0	1587.9	1608.0	1649.7	1651.6	1564.9	1398.4
42.5°	1544.9	1525.6	1512.8	1531.0	1587.9	1646.7	1686.7	1678.2	1738.2	1726.0	1619.5
45°	1657.6	1669.1	1650.3	1680.6	1701.2	1732.7	1731.5	1749.7	1826.0	1883.5	1786.0
47.5°	1763.0	1770.3	1779.4	1800.0	1844.7	1849.6	1839.3	1831.4	1936.8	1996.2	1915.0
50°	1826.0	1832.6	1875.1	1911.9	1995.6	2006.4	2012.5	1992.5	2064.0	2070.6	2036.7
52.5°	1809.0	1816.2	1875.6	1997.4	2130.6	2230.5	2212.4	2178.5	2174.2	2200.2	2149.3
55°	1658.8	1652.1	1733.9	1923.4	2173.0	2412.8	2415.2	2379.5	2311.1	2293.5	2132.4
56°	1531.0	1505.0	1609.1	1838.1	2118.5	2397.1	2424.3	2386.2	2322.0	2243.2	2027.7
57.5°	1254.3	1279.1	1382.6	1572.2	1930.1	2283.9	2299.6	2290.5	2242.0	2110.0	1784.1
60°	691.6	735.2	826.7	1058.6	1374.2	1752.7	1765.4	1839.3	1848.3	1615.8	1227.6
62.5°	293.7	288.8	384.0	554.8	782.5	1058.1	1081.6	1157.4	1171.3	931.5	615.9
65°	119.3	126.0	173.8	279.2	413.7	482.1	515.4	540.2	586.2	384.6	227.1
67.5°	78.8	78.1	102.3	159.3	222.8	215.0	215.0	227.1	210.2	156.8	98.1
70°	56.3	58.2	73.3	110.2	138.7	103.0	98.7	94.5	107.2	103.6	79.3
72.5°	37.0	39.4	49.1	66.0	72.0	56.3	56.3	67.8	88.4	83.5	64.8
75°	24.2	24.8	30.3	38.1	35.7	29.0	32.1	45.4	64.2	61.8	46.0
77.5°	16.4	17.0	20.6	24.8	20.0	16.4	17.5	23.0	31.5	31.5	24.2
80°	6.0	6.7	8.5	7.9	9.1	11.5	12.7	15.7	18.8	18.8	16.4
82.5°	0.0	0.6	1.8	4.2	6.7	9.1	10.3	12.1	13.9	15.7	15.1
85°	0.0	0.6	1.8	3.1	4.9	5.5	6.0	4.2	3.6	3.6	3.1
87.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.2	0.6	0.6
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°	635.3	635.3	635.3	635.3	635.3	635.3	635.3	635.3	635.3	635.3	635.3
2.5°	635.3	634.7	634.7	632.9	636.5	634.7	635.9	635.3	627.4	633.4	629.2
5°	642.0	646.2	639.6	638.3	633.4	635.3	635.3	629.2	634.7	634.1	632.9
7.5°	658.9	651.7	644.4	637.1	635.9	634.1	627.4	625.0	629.2	624.4	631.6
10°	666.2	667.4	656.5	646.8	637.8	625.0	615.9	610.5	603.8	611.1	615.3
12.5°	699.5	687.4	668.6	653.5	622.6	609.9	600.8	598.4	609.9	612.3	608.1
15°	711.0	709.2	685.0	651.1	619.0	603.8	605.7	600.8	602.0	595.9	597.1
17.5°	734.6	714.0	685.6	643.2	618.3	614.7	603.8	584.4	573.5	568.7	572.9
20°	760.7	740.7	699.5	646.2	623.8	614.1	578.4	554.8	532.4	520.2	520.9
22.5°	783.7	758.9	693.4	647.4	628.7	588.7	545.7	499.0	471.2	452.4	453.0
25°	811.5	776.4	695.9	649.8	615.9	548.1	486.3	440.9	407.6	394.9	399.1
27.5°	827.3	787.3	709.2	655.3	582.6	490.5	423.9	381.6	362.1	356.1	355.5
30°	874.5	811.5	725.5	644.4	526.9	428.8	367.0	341.0	322.2	316.7	318.0
32.5°	944.8	855.7	746.7	615.9	470.0	373.6	330.0	310.7	293.2	282.8	281.6
35°	1003.5	931.5	769.1	571.7	403.9	331.3	304.0	279.8	253.1	241.6	238.6
37.5°	1115.5	1016.9	764.3	505.1	341.0	299.8	276.2	246.5	223.5	207.7	205.9
40°	1264.5	1116.8	740.7	423.9	294.3	271.9	246.5	218.0	189.6	176.3	175.0
42.5°	1445.7	1239.1	697.7	341.5	247.7	244.1	221.0	188.3	162.9	153.2	153.9
45°	1592.8	1343.9	654.0	274.4	213.2	216.8	196.8	165.9	148.4	140.5	140.5
47.5°	1723.6	1414.7	606.8	226.5	181.1	189.6	172.0	153.9	138.7	132.6	131.4
50°	1849.6	1486.8	559.6	183.5	154.4	162.9	161.1	146.6	134.4	127.2	127.8
52.5°	1928.3	1498.3	499.6	150.2	135.1	144.8	150.8	137.5	124.2	119.9	118.7
55°	1832.0	1350.0	387.6	123.6	114.5	127.2	138.7	123.6	113.2	106.0	105.4
56°	1702.4	1207.0	324.0	113.8	108.4	122.3	134.4	118.1	106.6	102.3	99.3
57.5°	1441.4	987.8	239.2	101.2	100.5	113.8	127.8	112.7	99.3	95.7	95.7
60°	898.7	555.9	144.8	84.8	87.2	101.2	115.1	100.5	88.4	88.4	90.2
62.5°	409.4	231.4	87.9	72.0	75.1	87.2	102.3	90.8	84.2	90.8	92.1
65°	139.3	99.9	63.6	57.6	59.4	72.0	87.9	92.1	91.5	95.7	98.1
67.5°	78.1	64.2	53.3	47.8	46.7	53.3	72.0	92.1	88.4	86.6	87.9
70°	66.0	54.5	47.2	42.4	40.6	43.0	55.7	69.6	62.4	60.5	59.4
72.5°	53.3	45.4	41.2	38.1	32.7	27.9	25.4	26.6	29.7	31.5	34.5
75°	37.6	34.5	34.5	30.9	23.6	17.5	13.9	11.5	7.9	5.5	6.0
77.5°	21.2	21.2	21.8	18.8	15.1	11.5	8.5	6.0	3.1	1.2	0.6
80°	14.6	15.7	17.0	15.1	12.7	10.3	7.3	4.2	1.8	0.0	0.0
82.5°	14.6	16.4	17.5	15.1	12.7	9.7	7.3	4.2	1.8	0.6	0.0
85°	3.1	3.6	4.2	4.9	7.3	7.3	5.5	3.6	1.8	0.6	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	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)