

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: P648224

Luminaire Tested: **GALN-SA1B-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH
WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3781.1 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

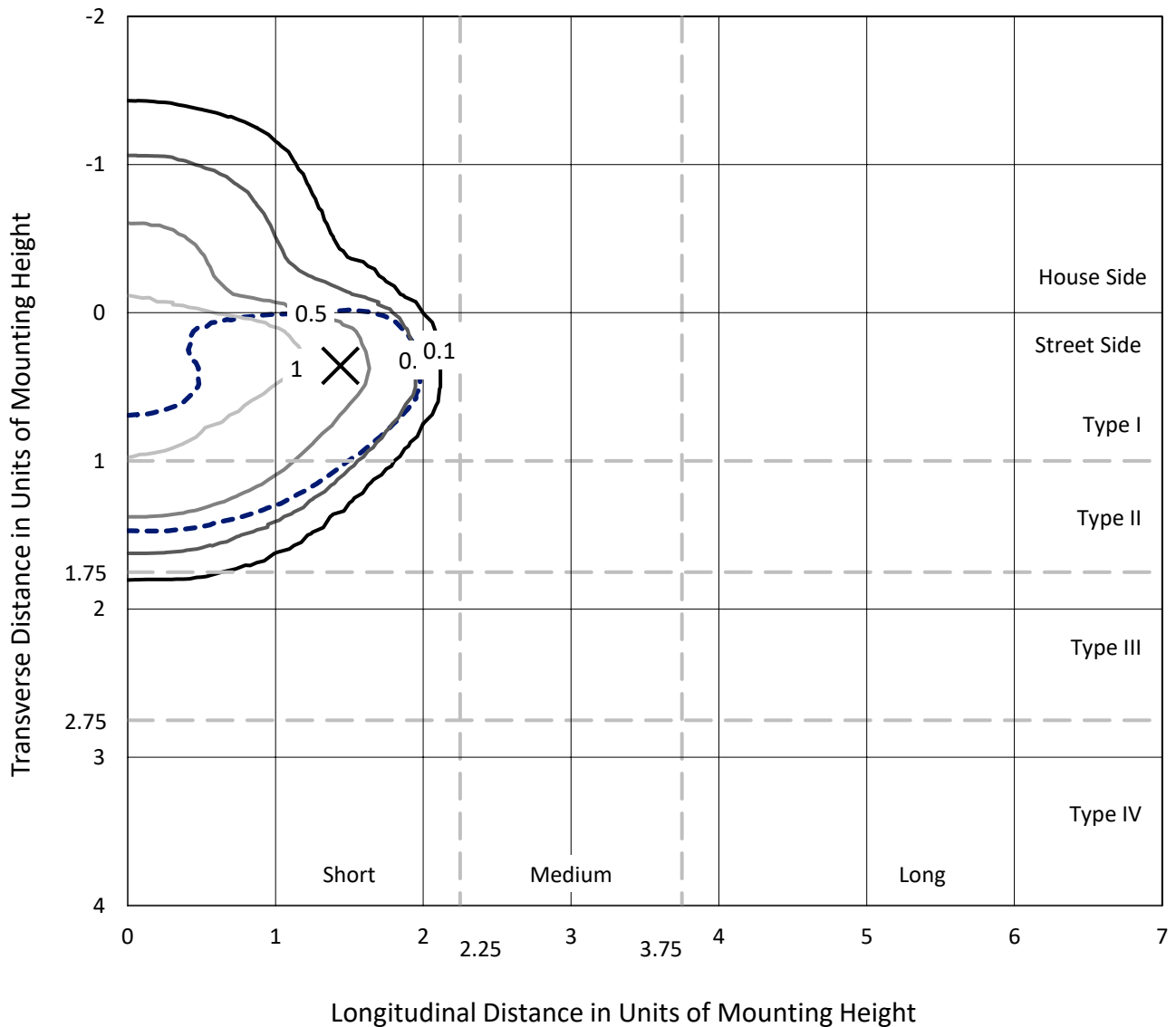
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

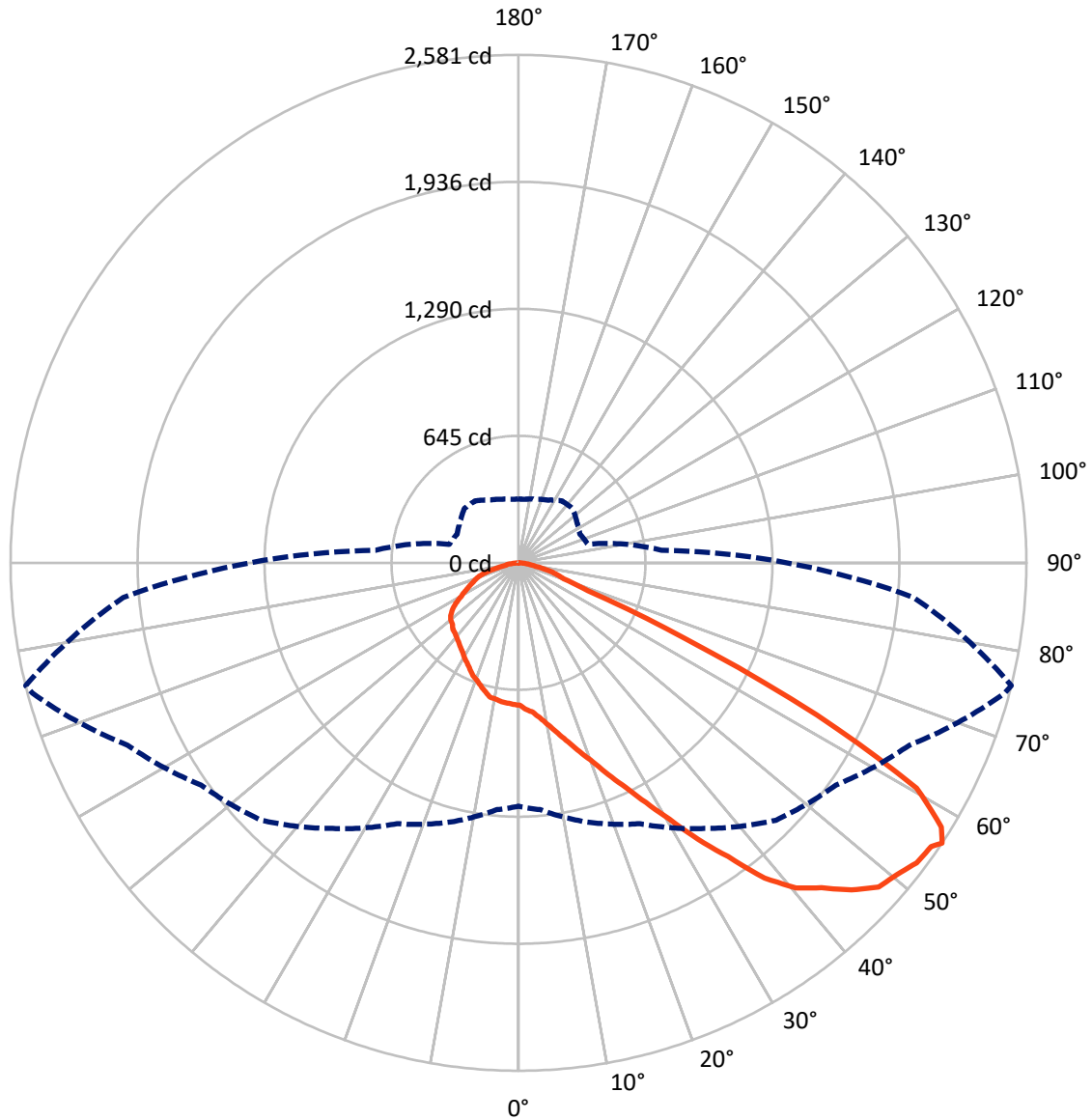
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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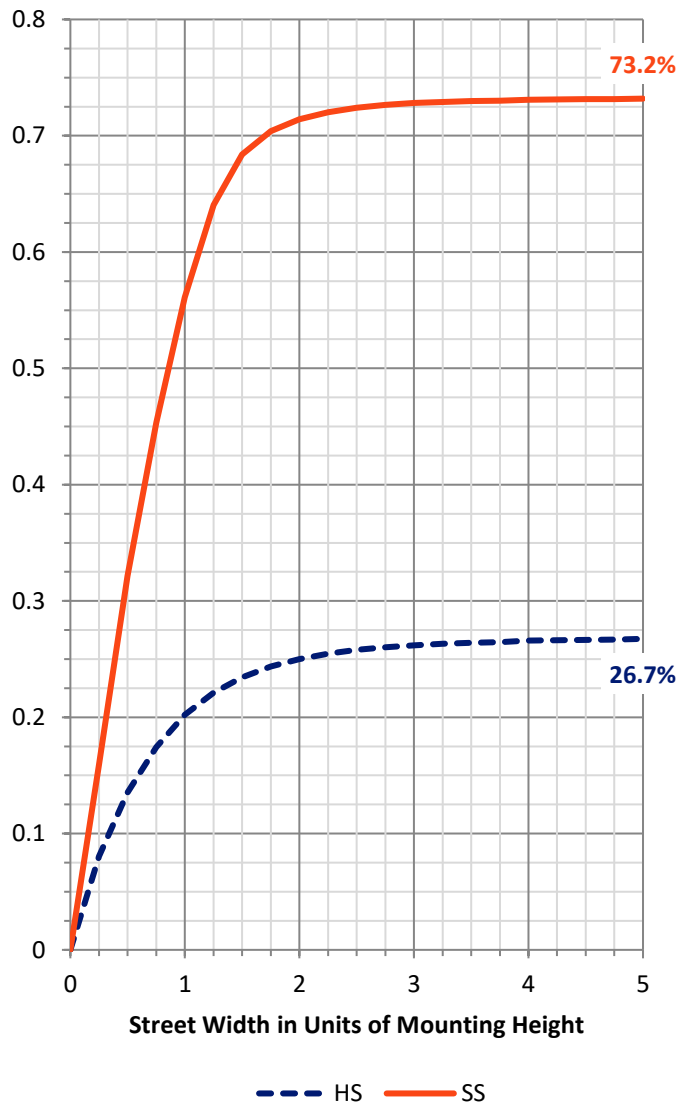
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1016.6	0.0	1016.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	2764.5	0.0	2764.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	3781.1	0.0	3781.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	1.9
10°-20°	225.4	6.0
20°-30°	394.2	10.4
30°-40°	617.1	16.3
40°-50°	897.8	23.7
50°-60°	986.7	26.1
60°-70°	440.4	11.6
70°-80°	127.2	3.4
80°-90°	20.6	0.5
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°	3781.1	100.0
0°-180°	3781.1	100.0

Coefficient of Utilization



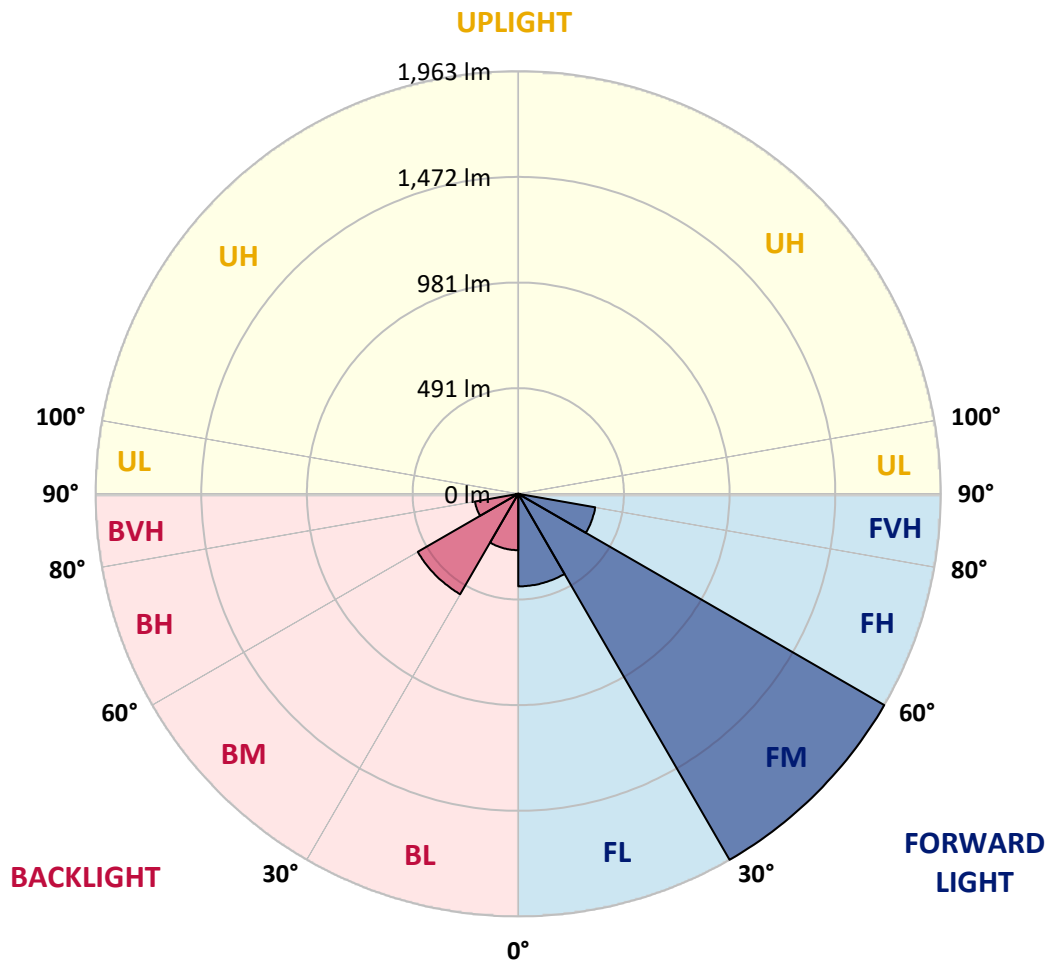
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	429.7	11.4			
FM (30°-60°)	1962.8	51.9			
FH (60°-80°)	363.1	9.6			G0/660
FVH (80°-90°)	8.9	0.2			G0/10
BL (0°-30°)	261.6	6.9	B1/500		
BM (30°-60°)	538.7	14.2	B1/1000		
BH (60°-80°)	204.5	5.4	B1/500		G1/500
BVH (80°-90°)	11.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	723.5	723.5	723.5	723.5	723.5	723.5	723.5	723.5	723.5	723.5	723.5
2.5°	797.0	784.3	783.2	779.9	781.8	773.0	763.7	751.4	738.7	746.5	727.9
5°	852.8	835.7	842.6	830.8	832.3	820.5	801.4	787.1	771.5	762.2	748.9
7.5°	872.5	873.9	878.8	876.9	867.1	867.1	854.3	829.4	801.9	796.5	774.5
10°	899.0	899.4	894.0	895.5	909.2	902.9	891.6	880.8	845.5	839.1	799.9
12.5°	908.3	899.4	908.3	916.1	932.2	941.1	938.7	930.8	893.1	888.6	831.3
15°	909.7	904.4	911.6	929.3	943.5	980.8	999.4	994.0	944.1	944.5	866.6
17.5°	902.9	910.2	913.1	928.3	961.2	996.0	1049.9	1057.3	1016.1	1009.7	911.2
20°	912.2	906.8	910.7	924.4	968.0	1022.4	1093.1	1141.5	1083.8	1079.3	957.3
22.5°	948.0	940.6	939.6	948.4	979.8	1036.2	1138.6	1225.9	1166.0	1168.5	1014.6
25°	975.9	979.8	976.4	975.9	995.5	1056.7	1198.9	1326.3	1277.9	1263.6	1082.3
27.5°	1023.9	1033.2	1026.4	1035.7	1031.3	1087.7	1242.1	1437.6	1398.4	1379.3	1143.5
30°	1090.6	1095.5	1089.2	1089.2	1075.9	1130.8	1281.2	1553.8	1537.6	1511.7	1215.6
32.5°	1178.3	1185.7	1172.9	1165.6	1163.6	1195.0	1351.8	1668.5	1695.9	1673.9	1311.1
35°	1294.5	1290.1	1274.9	1268.0	1241.5	1293.5	1456.8	1800.4	1872.4	1833.2	1426.9
37.5°	1397.0	1390.1	1389.1	1350.8	1357.3	1399.8	1546.0	1900.3	2043.5	2032.2	1548.9
40°	1492.6	1498.9	1509.2	1487.6	1477.8	1524.9	1649.9	1976.8	2176.3	2171.9	1643.0
42.5°	1595.0	1589.1	1607.2	1589.1	1574.4	1641.0	1762.6	2029.7	2292.9	2256.7	1741.5
45°	1743.5	1724.9	1731.2	1732.7	1721.9	1746.4	1809.1	2068.0	2374.8	2370.8	1813.6
47.5°	1867.5	1868.0	1857.2	1848.8	1816.0	1840.5	1861.1	2091.9	2468.9	2462.5	1841.5
50°	1913.6	1907.2	1938.6	1956.7	1958.7	1908.6	1901.8	2105.2	2518.4	2490.5	1869.4
52.5°	1747.9	1753.8	1803.2	1911.1	1973.4	1978.7	1949.4	2132.7	2538.5	2532.6	1892.0
55°	1406.7	1435.2	1516.5	1641.0	1788.6	1950.8	2000.8	2161.1	2549.3	2544.4	1992.0
56°	1236.7	1258.8	1364.6	1462.1	1647.4	1849.4	1968.5	2191.5	2557.6	2580.7	2015.5
57.5°	995.5	1021.0	1097.0	1207.7	1426.3	1656.2	1879.3	2154.2	2525.3	2534.1	2032.7
60°	622.5	624.9	716.1	789.2	943.0	1167.5	1434.2	1874.3	2337.0	2324.3	1825.8
62.5°	408.3	408.8	491.6	551.4	621.5	673.0	844.1	1243.0	1724.3	1701.9	1299.9
65°	286.7	293.1	357.3	437.2	465.7	438.7	433.3	655.4	963.2	930.8	698.4
67.5°	209.8	210.3	267.2	352.9	394.1	333.8	271.1	320.1	381.3	380.4	323.5
70°	138.7	144.6	188.2	263.7	310.8	268.1	221.5	228.9	242.7	242.7	240.7
72.5°	80.9	86.3	115.2	167.2	174.5	167.6	175.5	196.1	204.9	204.4	201.9
75°	46.0	48.5	54.9	69.6	86.8	102.4	128.9	148.5	157.3	162.7	156.4
77.5°	26.9	28.4	32.3	39.7	45.1	55.4	70.1	83.8	95.6	94.1	95.1
80°	14.3	14.3	18.2	23.5	31.4	39.2	46.6	54.4	60.8	62.2	63.7
82.5°	8.3	8.8	11.7	17.1	22.6	28.0	35.8	41.2	47.1	47.5	48.5
85°	4.4	4.9	7.4	11.3	15.2	17.1	17.6	16.7	18.2	17.1	19.6
87.5°	1.5	1.5	2.4	2.0	2.0	2.4	3.0	3.0	3.9	3.9	3.9
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°	723.5	723.5	723.5	723.5	723.5	723.5	723.5	723.5	723.5	723.5	723.5
2.5°	727.4	727.4	719.0	703.4	700.9	694.5	688.6	688.2	683.8	679.9	677.8
5°	741.1	725.9	713.6	699.5	682.8	674.9	666.1	656.3	652.4	656.3	655.8
7.5°	756.8	744.1	707.3	680.8	661.7	653.9	644.1	633.8	634.8	634.8	627.9
10°	772.0	754.8	696.0	662.2	634.2	628.4	623.0	626.9	631.8	632.8	628.4
12.5°	797.5	758.7	690.6	643.5	625.9	613.2	616.6	627.4	637.7	634.8	638.1
15°	816.6	762.2	666.1	624.4	602.4	608.3	620.5	627.9	645.0	643.1	646.5
17.5°	835.2	764.1	642.1	599.0	589.7	605.8	615.1	636.2	641.6	653.4	657.8
20°	873.4	768.0	617.6	583.3	580.4	599.0	615.1	624.9	636.7	647.0	647.0
22.5°	893.1	766.1	601.4	562.7	572.0	583.8	598.4	615.1	615.1	624.9	625.5
25°	917.6	758.3	575.9	552.9	559.8	571.0	587.7	581.8	588.2	588.2	596.0
27.5°	945.5	741.6	553.9	535.3	549.0	561.3	563.7	559.8	552.4	551.4	548.5
30°	968.0	721.0	537.7	529.4	540.7	547.5	539.6	531.3	518.6	517.6	510.8
32.5°	999.0	695.5	517.6	514.7	527.4	527.9	525.5	512.7	494.1	486.2	478.4
35°	1050.9	680.8	502.4	506.8	510.8	509.3	504.9	491.1	472.5	469.1	466.1
37.5°	1089.2	670.0	486.7	492.1	495.6	497.5	484.3	469.1	469.6	462.7	460.7
40°	1132.2	663.2	473.9	476.5	476.9	483.3	467.1	459.8	463.2	458.8	461.7
42.5°	1187.7	665.2	460.7	458.8	468.1	465.7	457.8	448.0	450.0	436.8	438.7
45°	1217.0	678.4	452.9	444.1	454.4	453.9	443.6	434.3	422.5	397.1	398.0
47.5°	1236.7	681.8	434.3	428.4	439.2	445.5	433.8	412.2	395.6	377.4	373.0
50°	1256.7	688.2	425.5	413.2	417.6	432.8	418.1	397.5	381.3	365.2	367.6
52.5°	1274.4	700.4	408.3	390.2	398.0	414.7	406.8	381.8	364.2	350.9	347.0
55°	1352.8	727.9	379.4	355.9	374.5	395.6	391.1	360.7	341.6	334.8	333.8
56°	1365.1	728.9	364.2	344.1	361.3	389.2	383.8	351.4	334.3	323.5	324.0
57.5°	1367.0	717.1	342.6	333.3	348.0	379.8	373.0	344.1	320.6	310.8	307.8
60°	1202.8	559.8	315.6	309.8	326.9	351.4	349.0	324.0	297.5	286.3	291.7
62.5°	820.0	410.3	294.6	293.6	302.4	326.4	320.1	297.5	275.5	268.1	264.7
65°	477.4	311.2	274.0	270.1	277.4	290.2	294.6	271.1	248.1	243.1	241.6
67.5°	281.8	257.3	247.5	241.2	238.7	246.6	250.0	236.2	213.2	206.3	212.3
70°	235.8	228.9	229.4	218.6	212.7	207.3	204.4	192.1	173.0	164.2	161.8
72.5°	203.4	200.4	198.5	188.7	183.3	171.1	158.3	146.0	131.9	124.5	125.0
75°	155.3	154.4	155.3	150.5	141.2	131.4	119.6	103.9	93.1	83.8	85.7
77.5°	92.6	95.6	97.0	95.1	91.1	82.4	75.0	64.7	54.4	47.1	46.0
80°	63.7	66.2	68.6	66.2	62.2	55.9	48.0	40.2	32.8	28.9	28.0
82.5°	48.5	51.0	52.5	50.0	45.1	38.2	32.8	27.5	21.5	17.6	16.7
85°	17.6	20.1	19.6	23.5	25.5	24.5	21.1	16.2	12.2	8.8	8.3
87.5°	4.9	4.4	4.9	4.9	4.9	4.4	3.9	3.9	3.9	2.4	2.0
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)