

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: P647246

Luminaire Tested: **GALN-SA1D-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4799 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

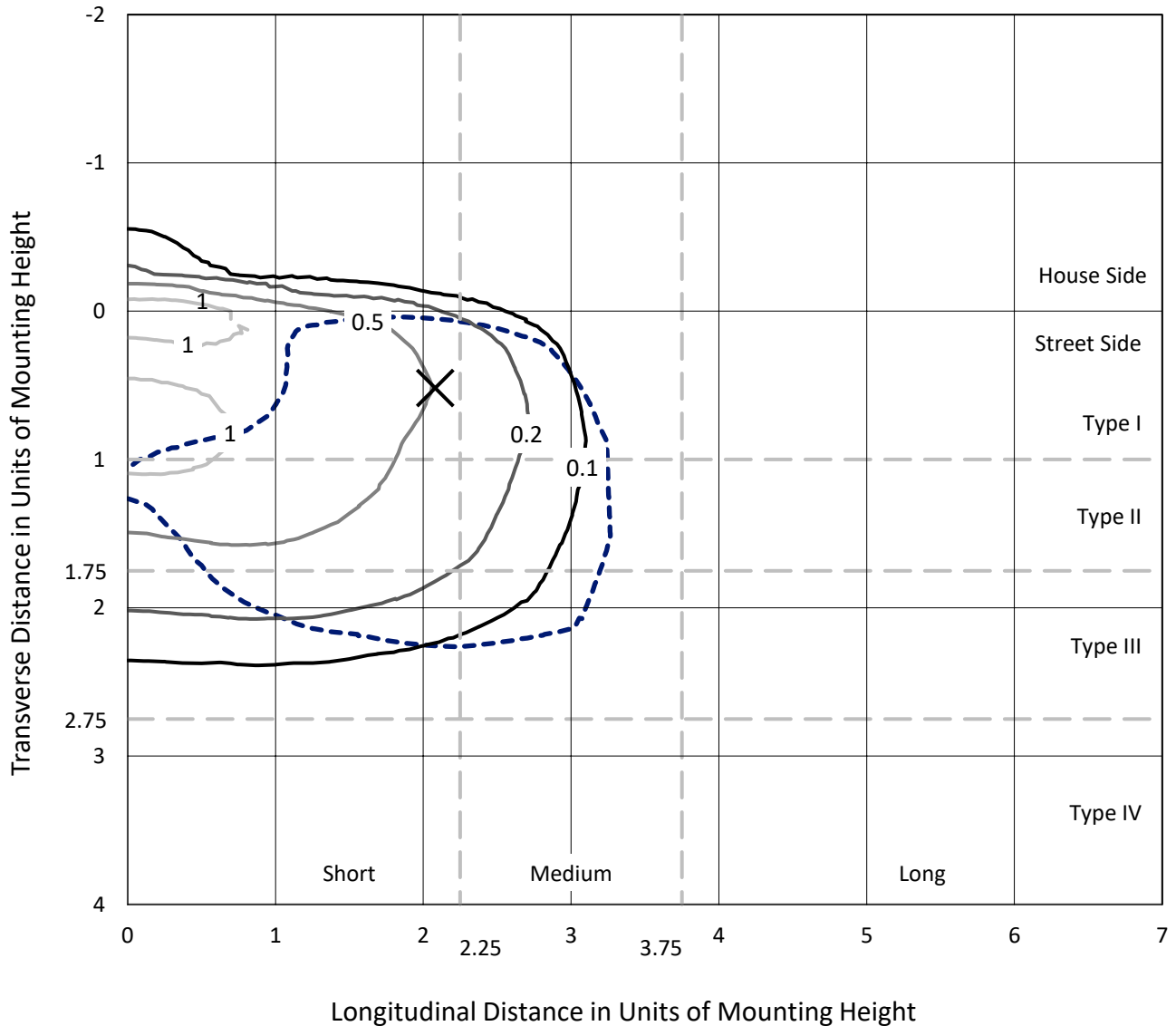
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

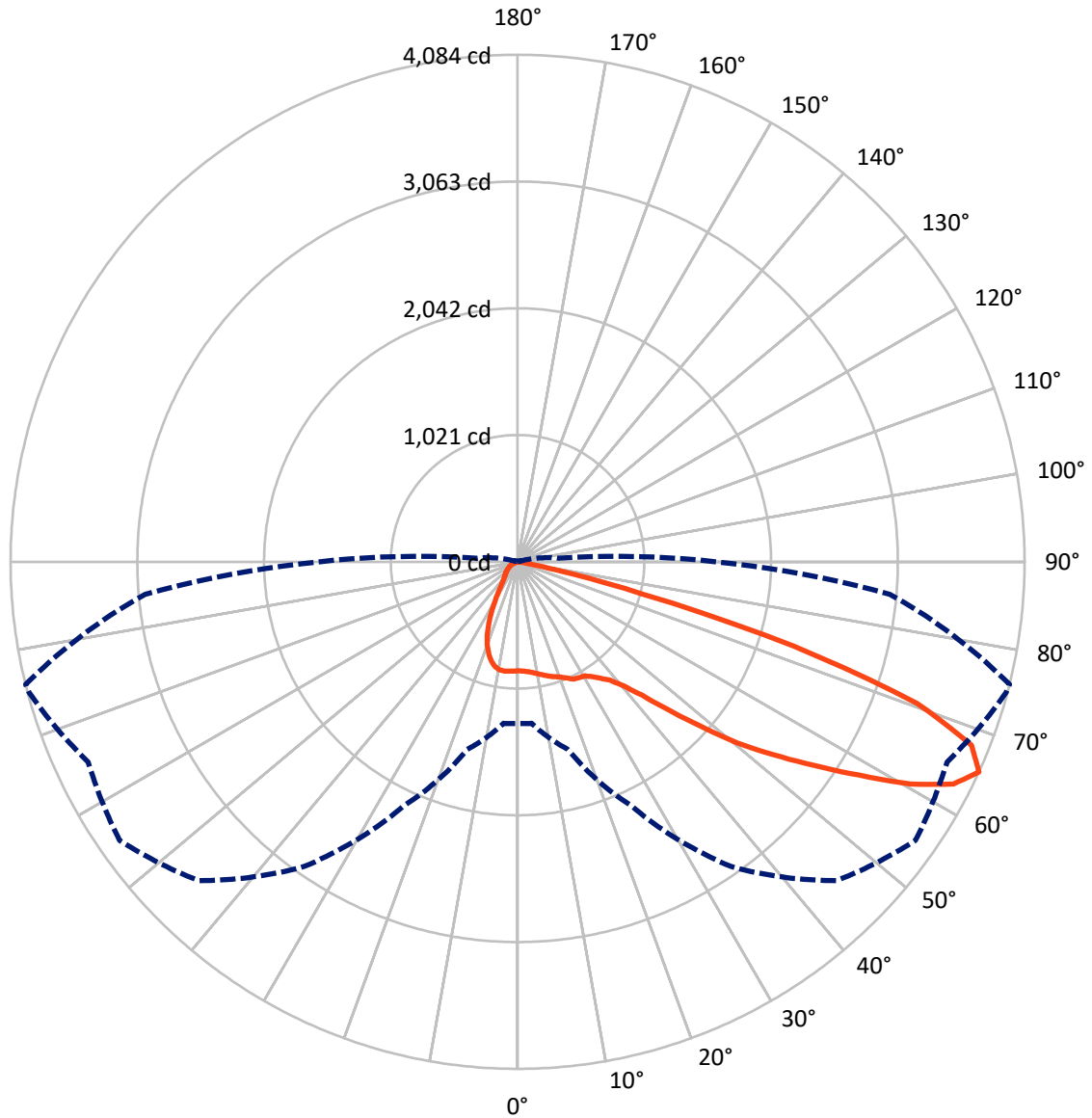
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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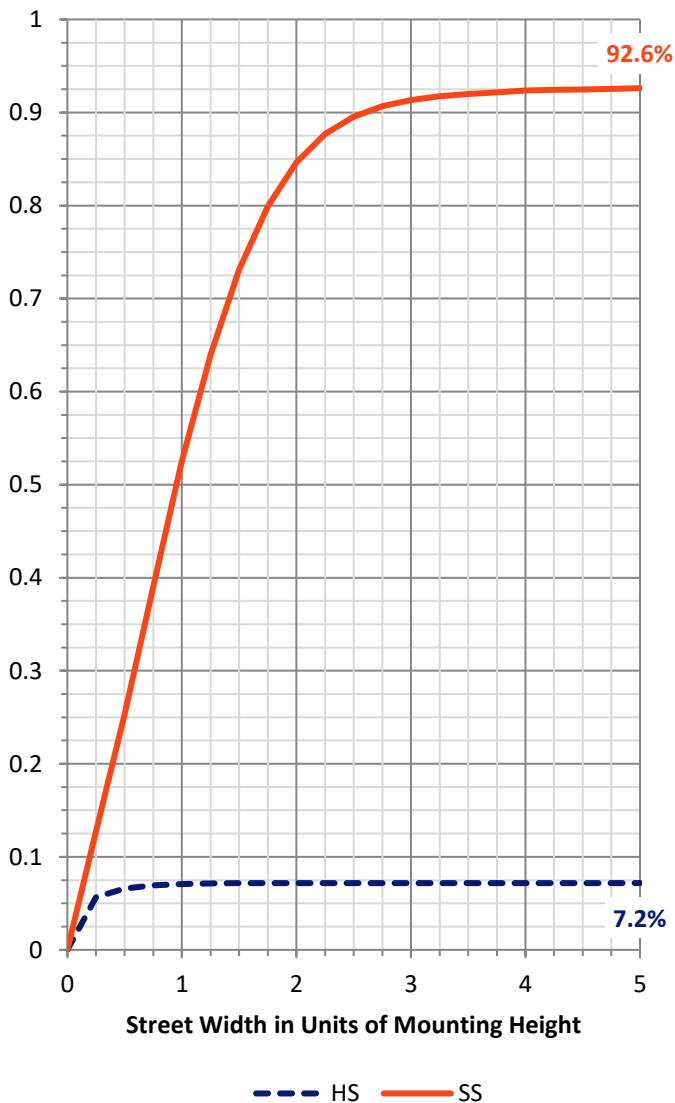
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	346.6	0.0	346.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4452.4	0.0	4452.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	4799.0	0.0	4799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	1.5
10°-20°	161.0	3.4
20°-30°	259.5	5.4
30°-40°	451.2	9.4
40°-50°	745.5	15.5
50°-60°	1151.7	24.0
60°-70°	1406.3	29.3
70°-80°	533.7	11.1
80°-90°	17.8	0.4
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°	4799.0	100.0
0°-180°	4799.0	100.0

Coefficient of Utilization



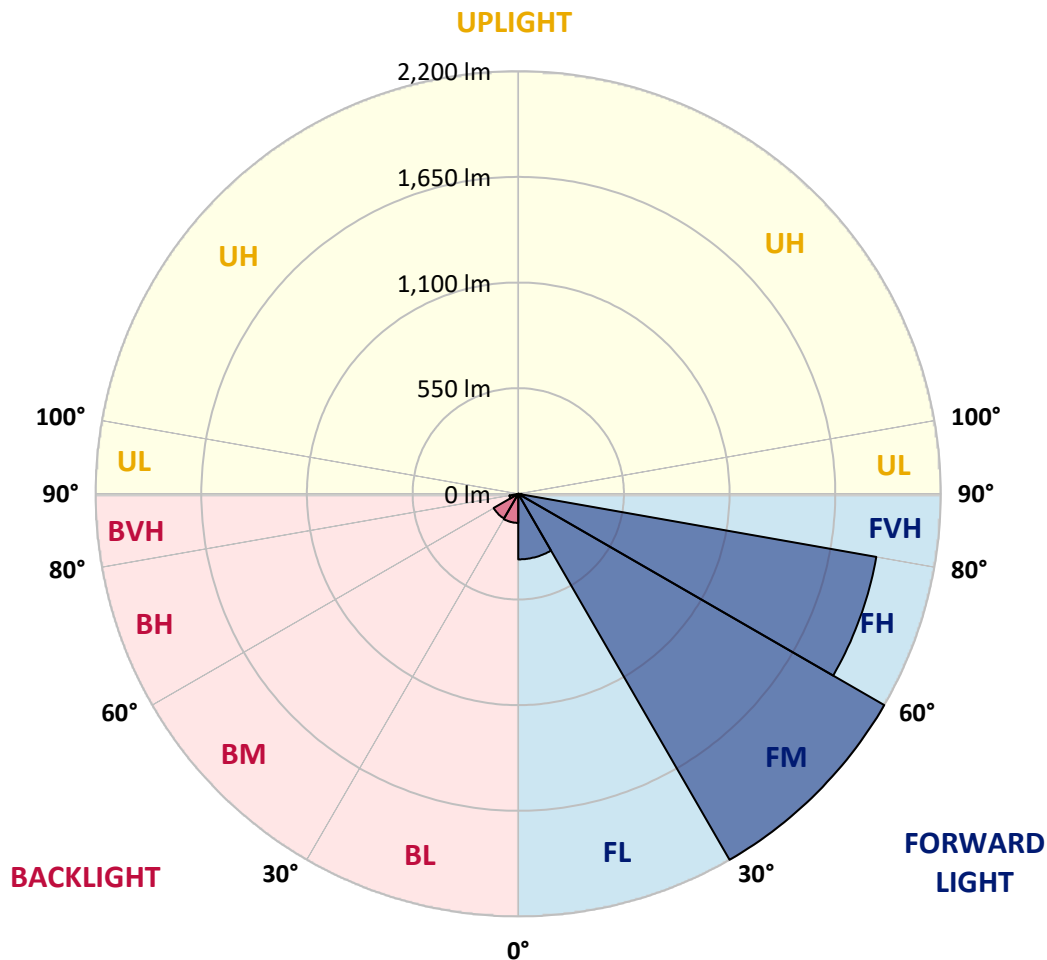
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	341.4	7.1			
FM (30°-60°)	2200.4	45.9			
FH (60°-80°)	1893.1	39.4			G2/5000
FVH (80°-90°)	17.6	0.4			G1/100
BL (0°-30°)	151.4	3.2	B1/500		
BM (30°-60°)	147.9	3.1	B0/220		
BH (60°-80°)	47.0	1.0	B0/110		G0/110
BVH (80°-90°)	0.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	877.9	877.9	877.9	877.9	877.9	877.9	877.9	877.9	877.9	877.9	877.9
2.5°	838.9	839.3	841.3	846.3	854.2	860.6	866.0	874.8	881.0	881.6	883.6
5°	781.0	776.9	781.0	794.2	806.1	824.0	846.0	868.0	887.7	889.1	898.6
7.5°	715.9	719.3	725.8	739.3	761.7	789.1	821.0	860.3	897.6	900.9	919.6
10°	649.9	657.3	667.8	688.5	719.7	755.2	798.6	854.9	913.1	917.9	950.1
12.5°	588.9	592.3	605.1	632.9	671.6	721.7	781.7	851.8	930.4	936.2	982.6
15°	542.1	546.5	557.7	582.8	625.8	690.2	767.8	850.8	947.4	955.5	1015.1
17.5°	533.3	536.0	540.7	557.7	595.3	665.1	755.2	850.4	963.6	973.4	1045.3
20°	569.6	567.2	562.4	560.8	581.5	645.8	746.1	853.2	979.2	990.4	1077.1
22.5°	660.4	663.4	635.6	602.8	596.0	642.8	744.7	866.0	1004.0	1017.1	1112.7
25°	853.2	829.7	786.4	707.8	648.5	661.4	760.0	896.5	1032.7	1047.3	1144.9
27.5°	1066.3	1059.2	991.7	862.3	751.8	700.7	787.1	919.9	1042.3	1057.1	1163.1
30°	1275.7	1284.1	1206.9	1063.9	901.9	773.5	812.5	928.7	1050.7	1066.3	1186.6
32.5°	1469.8	1479.9	1412.2	1270.6	1078.8	899.6	856.2	962.9	1086.3	1102.2	1225.6
35°	1622.6	1623.9	1572.8	1460.0	1271.9	1052.7	950.7	1022.9	1134.4	1153.0	1266.9
37.5°	1762.9	1760.9	1700.9	1603.7	1432.9	1204.9	1069.7	1092.1	1189.3	1208.6	1326.5
40°	1866.9	1868.2	1849.0	1757.4	1583.0	1345.4	1163.9	1156.7	1281.5	1311.6	1413.2
42.5°	1936.4	1948.9	1958.4	1912.0	1771.7	1518.6	1308.5	1295.3	1441.3	1466.4	1535.9
45°	1992.7	2015.0	2062.4	2060.1	1953.0	1731.1	1507.1	1479.9	1668.0	1694.8	1692.1
47.5°	2033.6	2056.3	2134.9	2182.4	2123.4	1937.1	1756.8	1733.4	1938.8	1967.9	1864.6
50°	2054.6	2081.8	2182.0	2273.8	2256.5	2135.6	2041.4	2042.8	2265.7	2293.8	2064.5
52.5°	2005.5	2040.7	2207.1	2372.4	2406.0	2325.7	2308.0	2352.8	2556.7	2580.8	2245.0
55°	1848.6	1893.0	2172.9	2456.5	2579.1	2550.0	2611.0	2679.1	2874.9	2890.5	2430.4
57.5°	1749.4	1796.4	2071.9	2528.0	2787.2	2831.9	2928.4	2978.3	3203.3	3242.9	2643.2
60°	1665.7	1702.6	1988.9	2543.2	2998.6	3176.8	3270.7	3322.2	3608.5	3634.2	2877.3
62.5°	1526.4	1568.7	1848.6	2436.9	3105.0	3453.0	3647.4	3624.4	3921.9	3939.8	3021.0
65°	1302.4	1306.2	1564.0	2169.5	2995.2	3632.2	3912.0	3815.5	4071.7	4083.8	3009.8
67.5°	972.1	1008.0	1203.2	1705.3	2530.0	3479.0	3997.8	3820.6	3977.1	3943.3	2770.9
70°	626.2	653.6	815.6	1182.5	1824.2	2903.4	3713.5	3558.7	3490.5	3415.4	2268.1
72.5°	289.0	324.2	484.5	675.7	1081.9	2068.2	3014.6	2891.1	2512.4	2326.7	1441.7
75°	126.1	134.8	239.2	356.4	507.2	1093.7	1987.6	1794.7	1134.7	1036.5	577.0
77.5°	76.9	82.7	125.4	191.1	199.2	416.8	1070.7	783.0	350.7	309.4	156.5
80°	52.1	58.6	91.1	100.0	68.1	116.2	401.8	209.1	70.8	67.7	33.5
82.5°	25.4	32.2	67.4	55.9	29.4	37.3	116.9	44.7	20.7	19.3	11.8
85°	3.8	6.4	38.0	36.6	13.2	8.8	20.7	11.2	7.1	6.8	5.4
87.5°	0.0	0.0	12.8	5.8	1.3	1.3	2.3	2.3	2.7	2.3	2.7
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°	877.9	877.9	877.9	877.9	877.9	877.9	877.9	877.9	877.9	877.9	877.9
2.5°	884.6	886.4	879.9	870.8	861.0	851.1	837.3	824.7	817.2	821.7	810.8
5°	900.6	899.3	882.3	854.5	817.6	773.2	729.1	691.5	679.3	661.0	659.0
7.5°	922.6	918.9	883.0	819.3	735.9	652.6	571.3	517.4	486.6	460.5	461.1
10°	953.5	942.6	875.2	757.2	620.1	494.3	390.6	319.5	288.7	278.8	271.1
12.5°	985.3	964.3	853.5	673.6	482.8	337.8	237.5	194.2	175.2	169.0	168.4
15°	1013.8	980.6	815.6	572.9	351.0	215.8	161.9	147.8	145.3	145.7	145.3
17.5°	1041.9	993.4	763.0	466.2	238.5	154.9	139.2	135.9	136.9	138.3	137.9
20°	1065.3	996.1	695.9	355.8	168.7	135.9	130.8	130.1	131.2	132.2	132.2
22.5°	1090.6	998.2	616.3	246.3	137.9	126.4	123.6	123.6	125.0	126.4	126.7
25°	1109.7	987.0	521.1	176.9	121.6	117.2	115.9	116.2	117.6	118.2	117.9
27.5°	1112.7	955.5	420.2	135.5	110.5	106.0	104.7	106.0	104.4	105.4	104.7
30°	1115.4	915.5	317.8	114.2	100.3	93.5	91.5	89.4	88.1	86.4	86.1
32.5°	1123.8	868.4	232.1	102.7	90.8	83.4	78.6	72.8	68.4	67.1	66.7
35°	1127.6	811.8	170.5	93.5	82.4	74.2	65.7	57.6	51.1	48.8	50.5
37.5°	1141.8	756.9	132.2	86.8	74.9	64.8	53.9	43.7	37.6	36.3	37.0
40°	1171.0	697.3	110.8	81.0	68.4	55.9	42.7	32.9	28.8	27.5	27.1
42.5°	1217.7	638.0	98.6	75.6	62.0	47.1	33.5	25.8	22.4	21.4	21.4
45°	1274.6	581.1	90.1	69.8	55.2	38.0	26.5	20.7	18.6	17.9	17.9
47.5°	1349.5	531.3	83.0	64.0	47.8	30.1	21.4	17.9	16.6	16.9	17.3
50°	1425.5	494.3	75.2	57.6	39.3	24.7	18.3	15.9	15.6	15.9	15.9
52.5°	1482.7	472.7	64.8	48.8	30.9	20.7	16.3	14.9	14.6	13.9	13.9
55°	1560.0	467.9	51.5	39.6	24.4	17.3	14.6	13.5	12.5	11.8	11.5
57.5°	1659.3	473.3	39.6	30.9	18.9	14.3	12.8	11.2	9.8	8.5	8.5
60°	1720.9	461.1	30.9	23.7	13.9	11.5	9.8	8.1	6.4	5.4	5.1
62.5°	1701.2	409.7	24.4	17.6	9.8	8.5	6.4	5.4	3.8	2.7	2.3
65°	1599.9	330.7	19.7	12.2	7.1	5.1	3.4	3.4	1.7	0.3	0.0
67.5°	1400.4	245.0	15.6	8.1	4.1	2.3	1.7	1.0	0.0	0.0	0.0
70°	1139.8	176.9	12.2	5.1	2.3	1.7	0.7	0.3	0.0	0.0	0.0
72.5°	723.7	101.3	9.5	3.1	1.7	0.7	0.0	0.0	0.0	0.0	0.0
75°	279.8	39.6	6.4	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	79.3	18.6	3.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	20.7	8.1	2.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.8	3.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.8	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	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)