

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: P458594

Luminaire Tested: **GALN-SA1C-735-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458594
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-SA1C-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA 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: 5188 lumens
Efficiency: N/A
Efficacy: 91.0 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

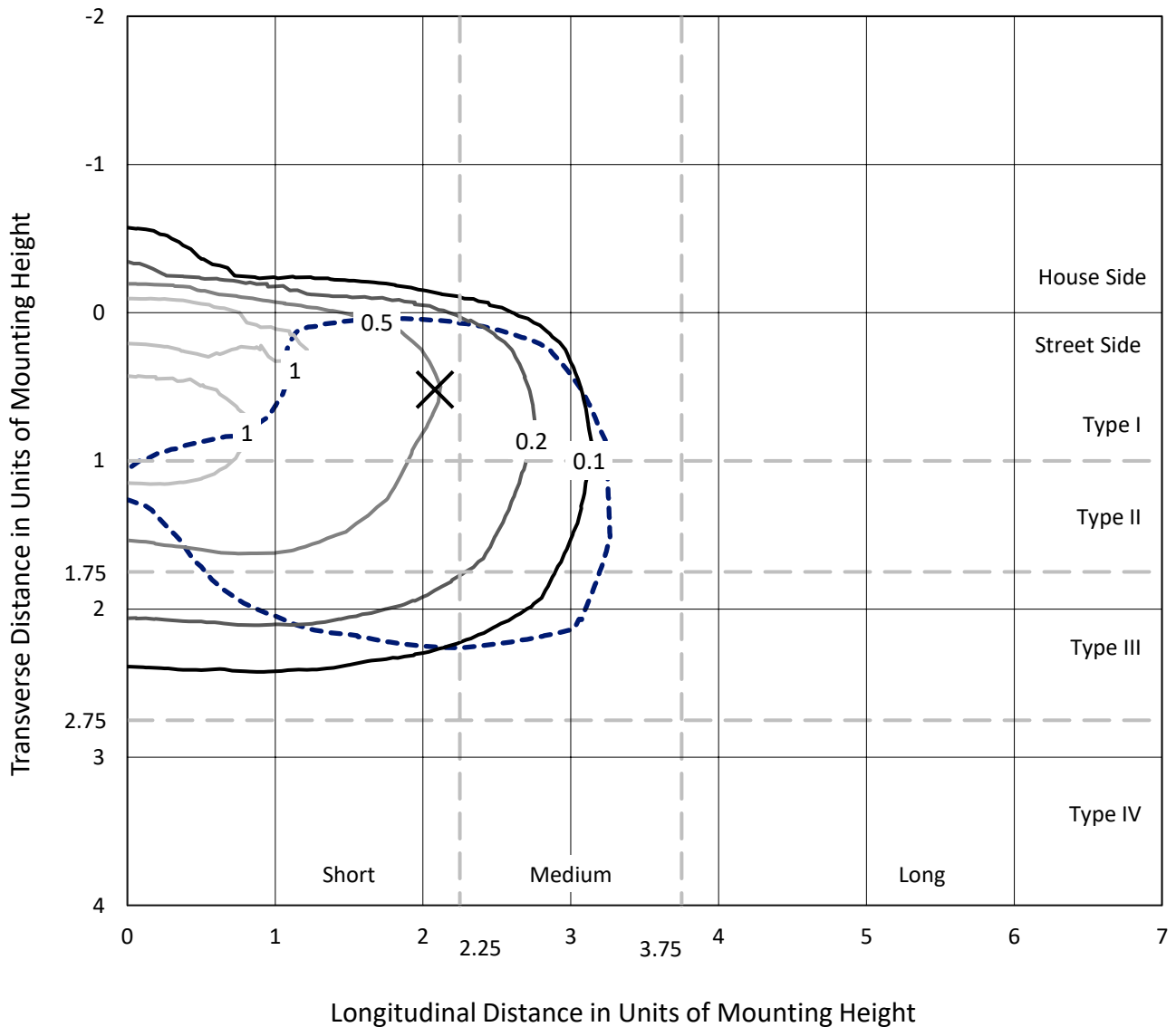
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

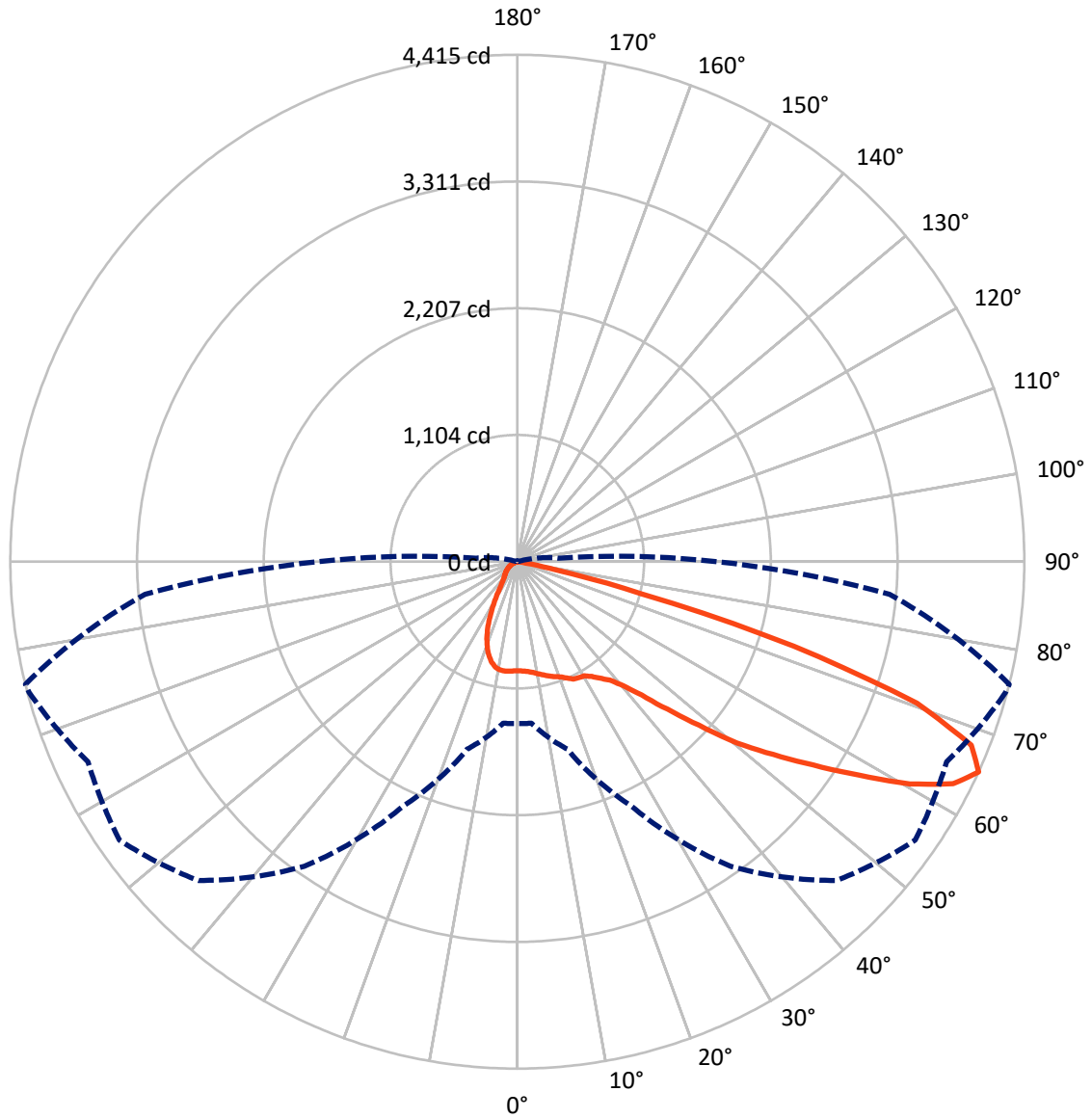
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type 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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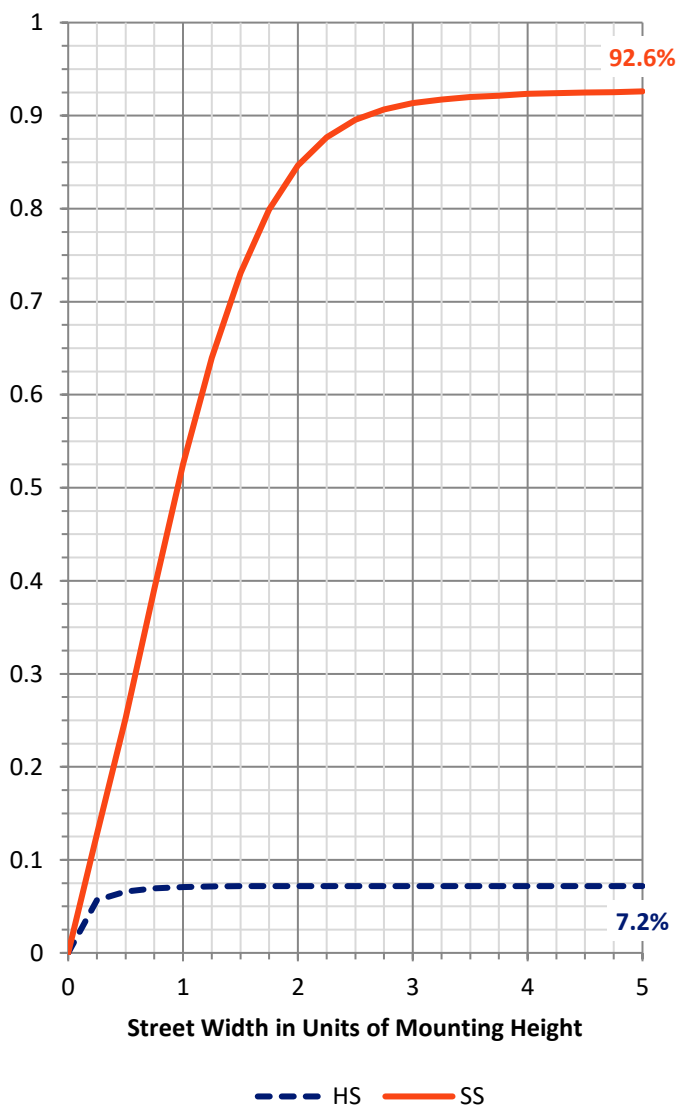
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	374.7	0.0	374.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4813.3	0.0	4813.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	5188.0	0.0	5188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	1.5
10°-20°	174.1	3.4
20°-30°	280.5	5.4
30°-40°	487.7	9.4
40°-50°	805.9	15.5
50°-60°	1245.0	24.0
60°-70°	1520.3	29.3
70°-80°	577.0	11.1
80°-90°	19.3	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°	5188.0	100.0
0°-180°	5188.0	100.0

Coefficient of Utilization



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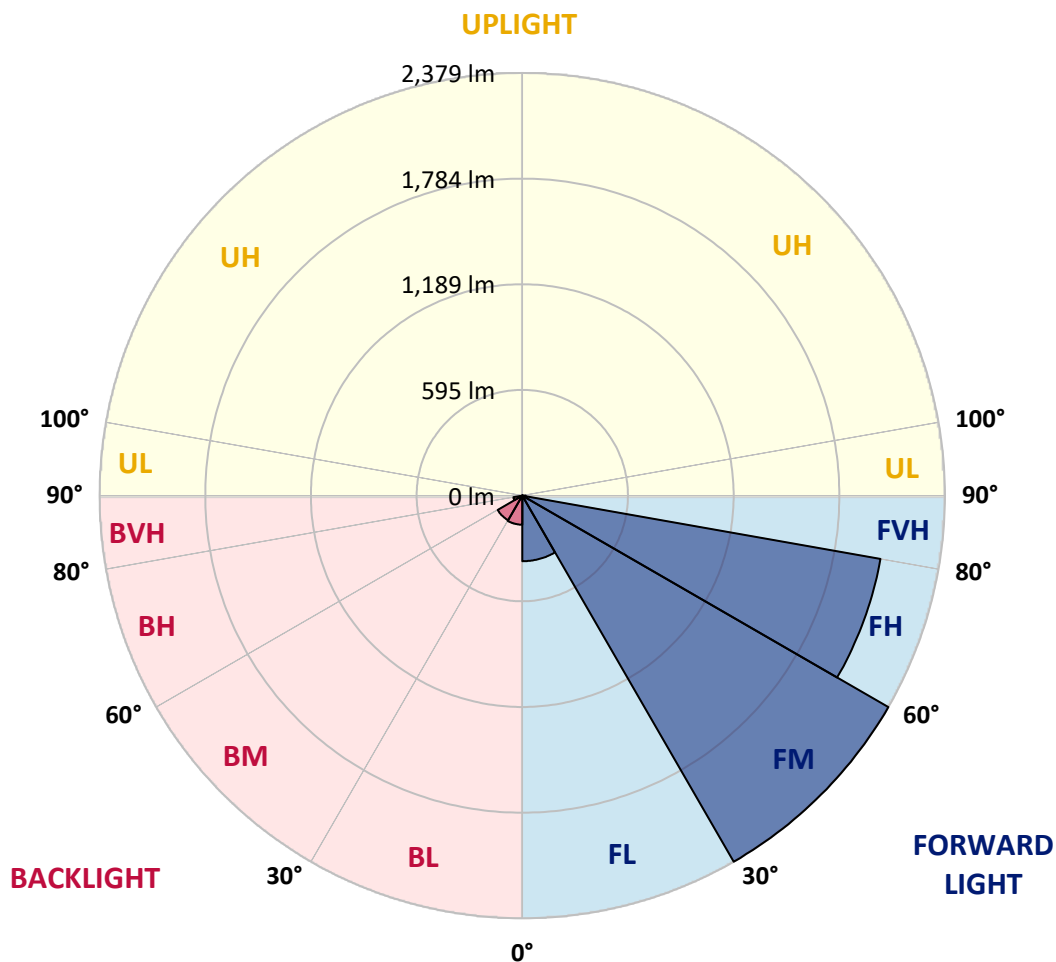
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	369.1	7.1			
FM (30°-60°)	2378.8	45.9			
FH (60°-80°)	2046.5	39.4			G2/5000
FVH (80°-90°)	19.0	0.4			G1/100
BL (0°-30°)	163.7	3.2	B1/500		
BM (30°-60°)	159.9	3.1	B0/220		
BH (60°-80°)	50.8	1.0	B0/110		G0/110
BVH (80°-90°)	0.3	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°	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1
2.5°	906.9	907.3	909.5	915.0	923.4	930.4	936.2	945.8	952.3	953.1	955.3
5°	844.3	839.9	844.3	858.6	871.4	890.8	914.6	938.4	959.7	961.1	971.4
7.5°	774.0	777.6	784.6	799.2	823.4	853.1	887.5	930.0	970.3	974.0	994.1
10°	702.5	710.6	722.0	744.3	778.0	816.5	863.3	924.1	987.1	992.3	1027.1
12.5°	636.6	640.3	654.2	684.2	726.0	780.2	845.0	920.8	1005.8	1012.1	1062.2
15°	586.1	590.8	602.9	630.0	676.5	746.1	830.0	919.7	1024.1	1032.9	1097.4
17.5°	576.5	579.5	584.6	602.9	643.6	719.0	816.5	919.4	1041.7	1052.3	1130.0
20°	615.7	613.2	608.0	606.2	628.5	698.1	806.6	922.3	1058.6	1070.7	1164.4
22.5°	713.9	717.2	687.2	651.6	644.3	694.8	805.1	936.2	1085.3	1099.6	1202.9
25°	922.3	897.0	850.2	765.2	701.1	715.0	821.6	969.2	1116.4	1132.2	1237.7
27.5°	1152.7	1145.0	1072.1	932.2	812.8	757.5	850.9	994.5	1126.7	1142.8	1257.5
30°	1379.1	1388.2	1304.7	1150.1	975.1	836.2	878.4	1004.0	1135.9	1152.7	1282.7
32.5°	1589.0	1599.9	1526.7	1373.6	1166.3	972.5	925.6	1041.0	1174.3	1191.5	1324.9
35°	1754.2	1755.6	1700.3	1578.3	1375.0	1138.1	1027.8	1105.8	1226.3	1246.5	1369.5
37.5°	1905.8	1903.6	1838.8	1733.6	1549.0	1302.5	1156.4	1180.5	1285.7	1306.5	1434.0
40°	2018.2	2019.7	1998.8	1899.9	1711.3	1454.5	1258.2	1250.5	1385.3	1417.9	1527.8
42.5°	2093.3	2106.9	2117.1	2067.0	1915.3	1641.7	1414.6	1400.3	1558.2	1585.3	1660.4
45°	2154.1	2178.3	2229.6	2227.0	2111.3	1871.4	1629.2	1599.9	1803.2	1832.2	1829.2
47.5°	2198.5	2223.0	2308.0	2359.3	2295.5	2094.1	1899.2	1873.9	2095.9	2127.4	2015.7
50°	2221.2	2250.5	2358.9	2458.2	2439.5	2308.7	2206.9	2208.3	2449.4	2479.8	2231.8
52.5°	2168.1	2206.1	2386.0	2564.7	2601.0	2514.2	2495.2	2543.5	2764.0	2790.0	2427.0
55°	1998.5	2046.4	2349.0	2655.6	2788.2	2756.7	2822.6	2896.2	3107.9	3124.8	2627.4
57.5°	1891.1	1942.1	2239.8	2732.9	3013.1	3061.4	3165.8	3219.7	3462.9	3505.7	2857.4
60°	1800.7	1840.6	2150.1	2749.4	3241.6	3434.3	3535.8	3591.4	3901.0	3928.8	3110.5
62.5°	1650.1	1695.9	1998.5	2634.3	3356.7	3732.8	3943.1	3918.2	4239.8	4259.2	3265.8
65°	1408.0	1412.0	1690.8	2345.3	3238.0	3926.6	4229.2	4124.8	4401.7	4414.9	3253.7
67.5°	1050.9	1089.7	1300.7	1843.5	2735.1	3761.0	4321.8	4130.3	4299.5	4262.9	2995.5
70°	676.9	706.6	881.7	1278.3	1972.1	3138.7	4014.5	3847.1	3773.5	3692.2	2451.9
72.5°	312.4	350.5	523.8	730.4	1169.6	2235.8	3258.9	3125.5	2716.0	2515.3	1558.6
75°	136.3	145.8	258.6	385.3	548.3	1182.4	2148.6	1940.2	1226.7	1120.5	623.8
77.5°	83.1	89.4	135.5	206.6	215.4	450.5	1157.5	846.5	379.1	334.4	169.2
80°	56.4	63.4	98.5	108.1	73.6	125.6	434.4	226.0	76.6	73.3	36.3
82.5°	27.5	34.8	72.9	60.4	31.9	40.3	126.4	48.3	22.3	20.9	12.8
85°	4.0	7.0	41.0	39.6	14.3	9.5	22.3	12.1	7.7	7.3	5.9
87.5°	0.0	0.0	13.9	6.2	1.5	1.5	2.6	2.6	2.9	2.6	2.9
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°	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1
2.5°	956.4	958.2	951.2	941.4	930.7	920.1	905.1	891.5	883.5	888.2	876.5
5°	973.6	972.1	953.8	923.8	883.9	835.9	788.3	747.6	734.4	714.6	712.4
7.5°	997.4	993.4	954.5	885.7	795.6	705.5	617.6	559.3	526.0	497.8	498.5
10°	1030.7	1019.0	946.1	818.7	670.3	534.4	422.3	345.4	312.1	301.5	293.0
12.5°	1065.2	1042.5	922.7	728.2	522.0	365.2	256.8	209.9	189.4	182.8	182.0
15°	1095.9	1060.0	881.7	619.4	379.5	233.3	175.1	159.7	157.1	157.5	157.1
17.5°	1126.3	1074.0	824.9	504.0	257.9	167.4	150.5	146.9	148.0	149.4	149.1
20°	1151.6	1076.9	752.4	384.6	182.4	146.9	141.4	140.7	141.8	142.9	142.9
22.5°	1179.1	1079.1	666.3	266.3	149.1	136.6	133.7	133.7	135.2	136.6	137.0
25°	1199.6	1067.0	563.4	191.2	131.5	126.7	125.3	125.6	127.1	127.8	127.5
27.5°	1202.9	1032.9	454.2	146.5	119.4	114.6	113.2	114.6	112.8	113.9	113.2
30°	1205.8	989.7	343.6	123.4	108.4	101.1	98.9	96.7	95.2	93.4	93.0
32.5°	1215.0	938.8	250.9	111.0	98.2	90.1	85.0	78.8	74.0	72.5	72.2
35°	1219.0	877.6	184.2	101.1	89.0	80.2	71.1	62.3	55.3	52.7	54.6
37.5°	1234.4	818.3	142.9	93.8	80.9	70.0	58.2	47.3	40.7	39.2	39.9
40°	1265.9	753.8	119.8	87.5	74.0	60.4	46.2	35.5	31.1	29.7	29.3
42.5°	1316.4	689.7	106.6	81.7	67.0	50.9	36.3	27.8	24.2	23.1	23.1
45°	1378.0	628.2	97.4	75.5	59.7	41.0	28.6	22.3	20.1	19.4	19.4
47.5°	1458.9	574.3	89.7	69.2	51.6	32.6	23.1	19.4	17.9	18.3	18.7
50°	1541.0	534.4	81.3	62.3	42.5	26.7	19.8	17.2	16.8	17.2	17.2
52.5°	1602.9	511.0	70.0	52.7	33.3	22.3	17.6	16.1	15.8	15.0	15.0
55°	1686.4	505.8	55.7	42.9	26.4	18.7	15.8	14.7	13.6	12.8	12.5
57.5°	1793.7	511.7	42.9	33.3	20.5	15.4	13.9	12.1	10.6	9.2	9.2
60°	1860.4	498.5	33.3	25.6	15.0	12.5	10.6	8.8	7.0	5.9	5.5
62.5°	1839.1	442.8	26.4	19.0	10.6	9.2	7.0	5.9	4.0	2.9	2.6
65°	1729.6	357.5	21.2	13.2	7.7	5.5	3.7	3.7	1.8	0.4	0.0
67.5°	1513.9	264.8	16.8	8.8	4.4	2.6	1.8	1.1	0.0	0.0	0.0
70°	1232.2	191.2	13.2	5.5	2.6	1.8	0.7	0.4	0.0	0.0	0.0
72.5°	782.4	109.5	10.3	3.3	1.8	0.7	0.0	0.0	0.0	0.0	0.0
75°	302.6	42.9	7.0	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	85.7	20.1	4.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	22.3	8.8	2.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.6	3.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.2	1.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	0.4	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)