

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: P526134

Luminaire Tested: **GALN-SA1A-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526134
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-SA1A-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA 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: 3882 lumens
Efficiency: N/A
Efficacy: 117.6 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

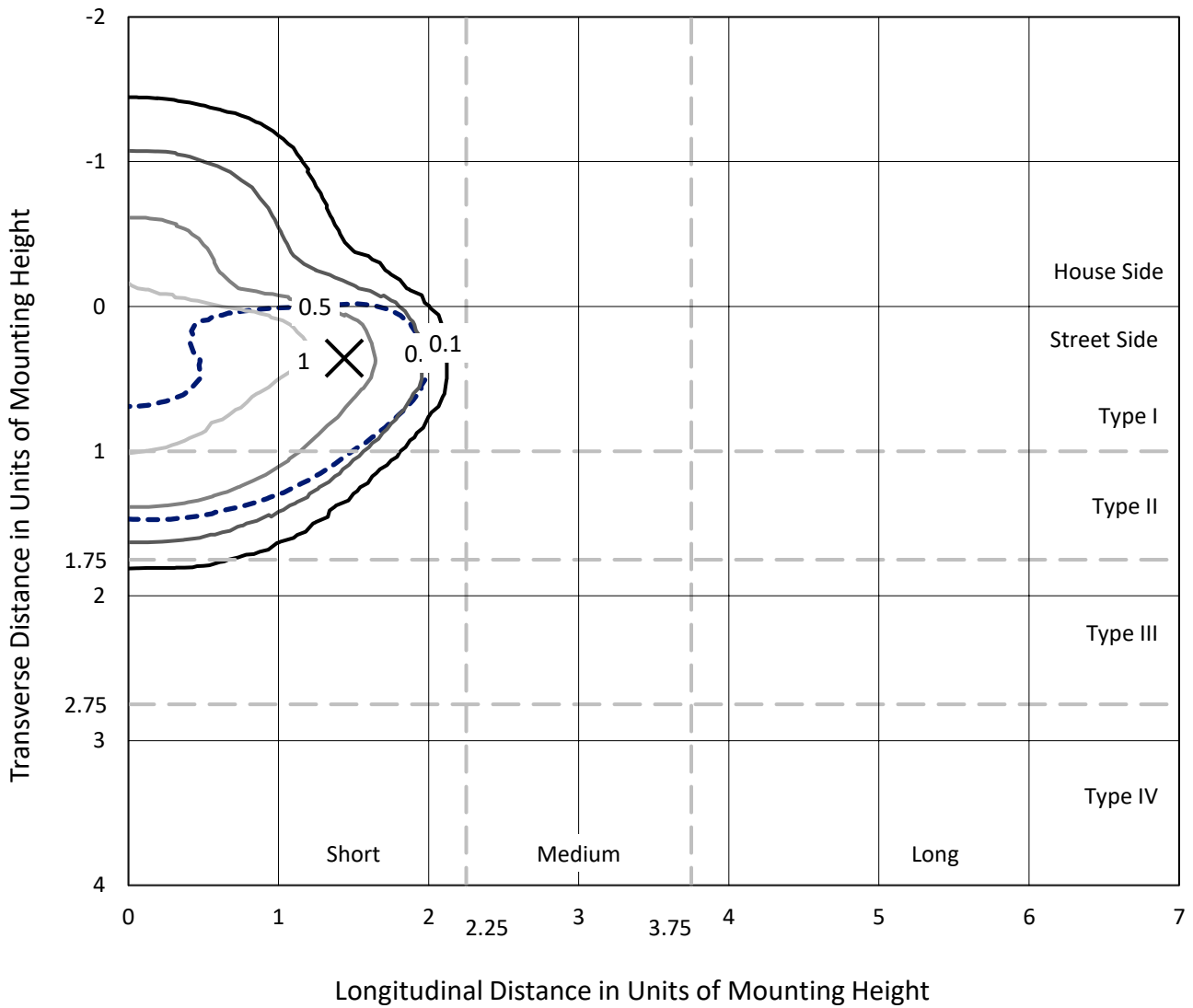
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

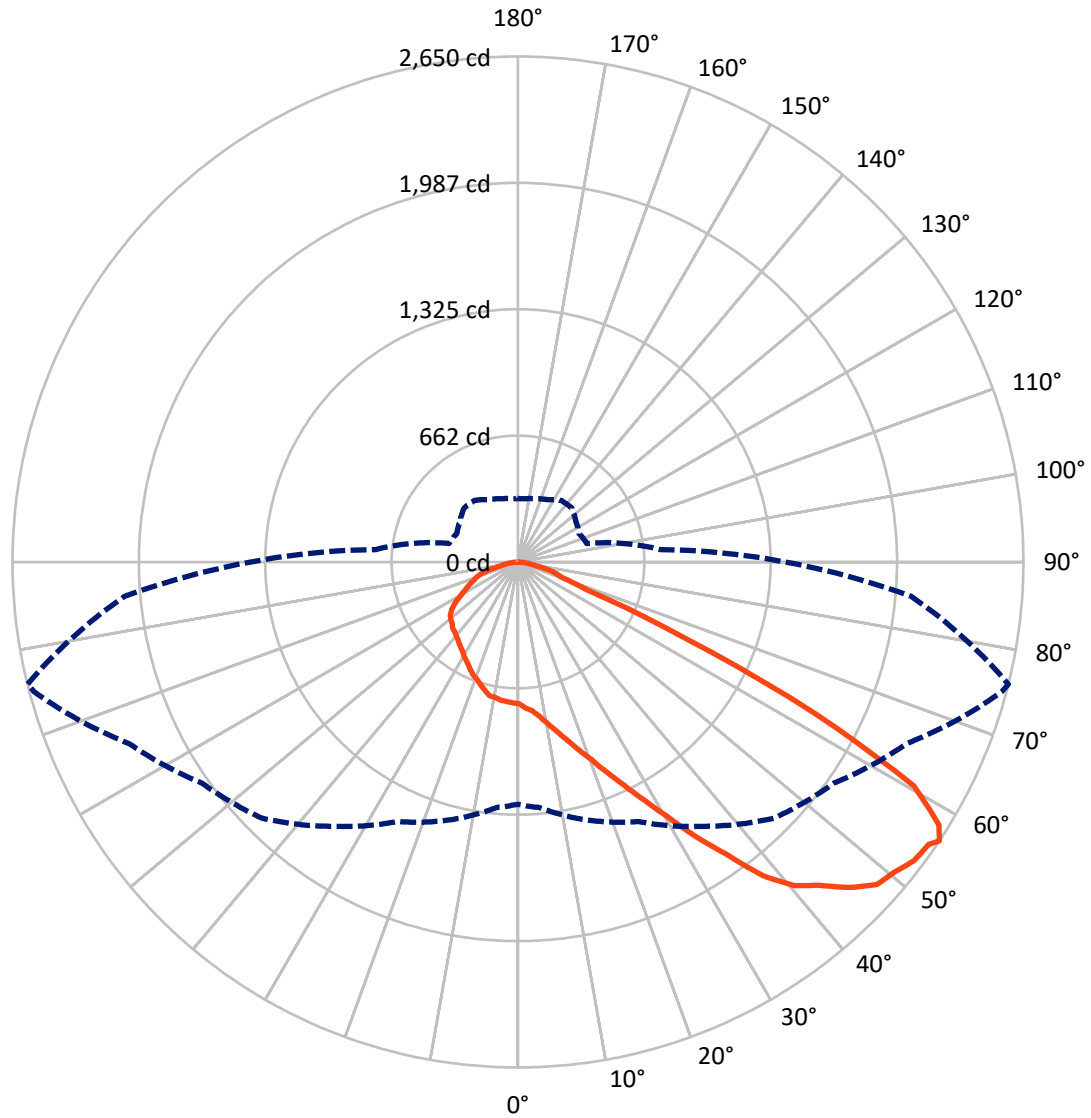
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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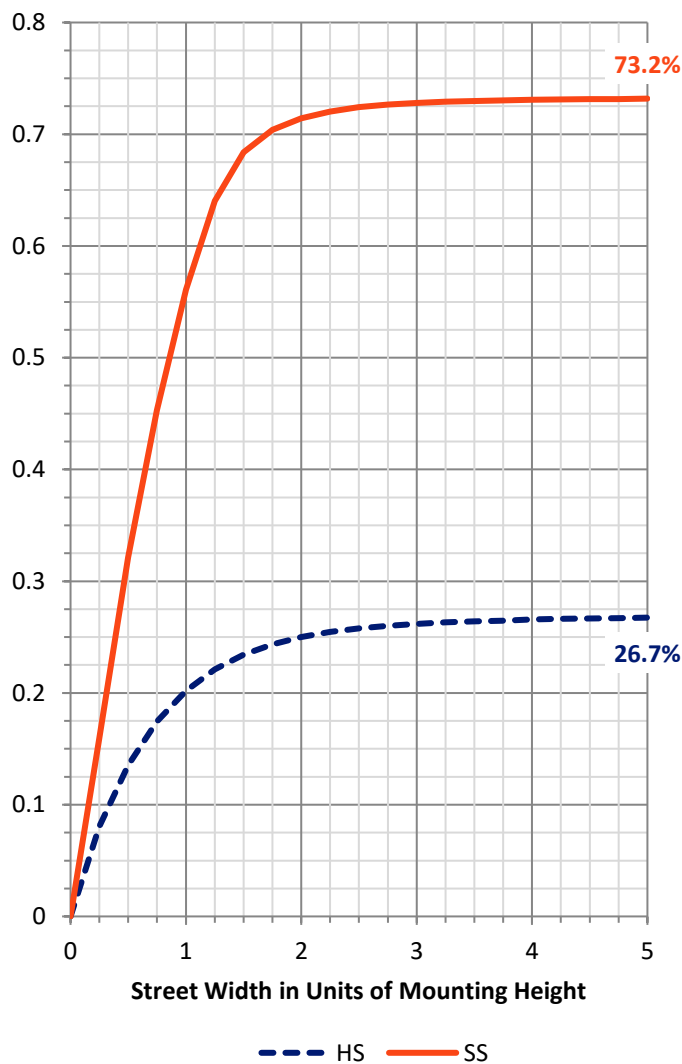
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1043.7	0.0	1043.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	2838.2	0.0	2838.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	3882.0	0.0	3882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	1.9
10°-20°	231.4	6.0
20°-30°	404.7	10.4
30°-40°	633.6	16.3
40°-50°	921.7	23.7
50°-60°	1013.0	26.1
60°-70°	452.2	11.6
70°-80°	130.6	3.4
80°-90°	21.2	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°	3882.0	100.0
0°-180°	3882.0	100.0

Coefficient of Utilization



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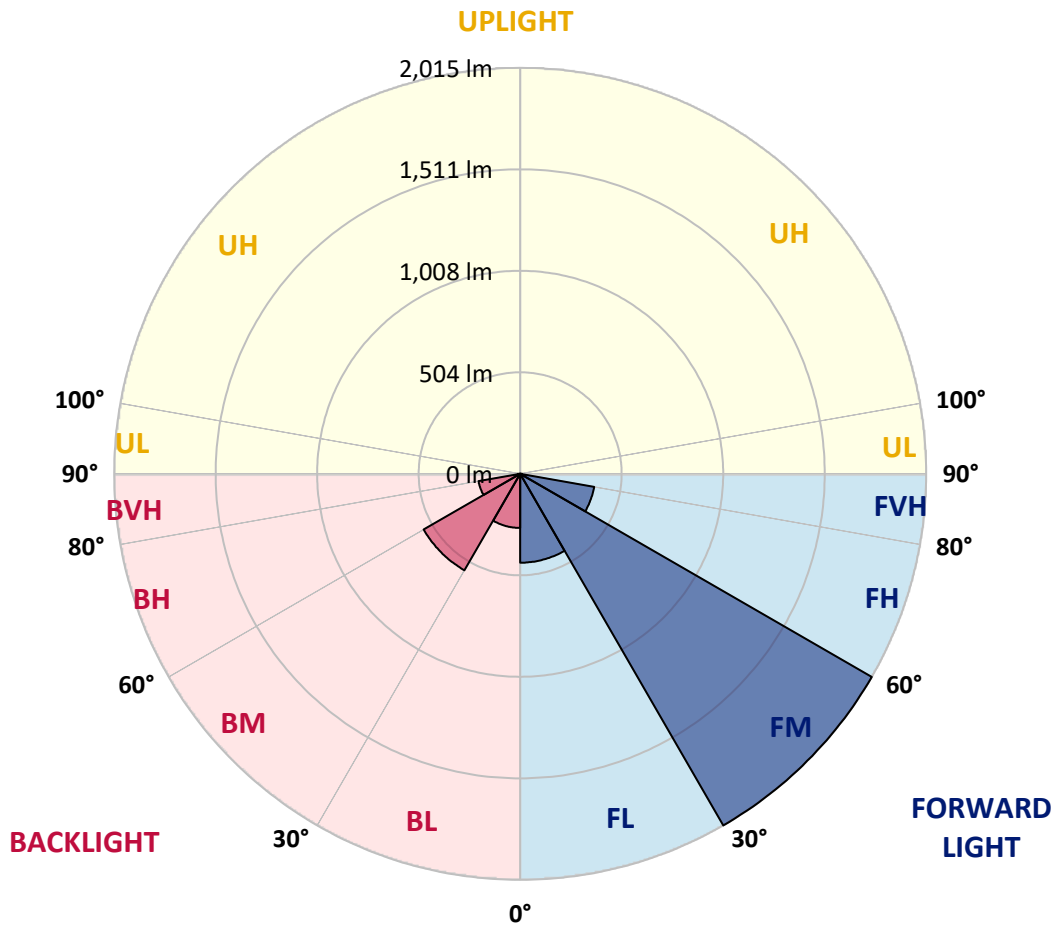
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.1	11.4			
FM (30°-60°)	2015.2	51.9			
FH (60°-80°)	372.8	9.6			G0/660
FVH (80°-90°)	9.1	0.2			G0/10
BL (0°-30°)	268.6	6.9	B1/500		
BM (30°-60°)	553.1	14.2	B1/1000		
BH (60°-80°)	210.0	5.4	B1/500		G1/500
BVH (80°-90°)	12.1	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°	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8
2.5°	818.3	805.2	804.2	800.6	802.7	793.6	784.0	771.5	758.4	766.4	747.3
5°	875.6	858.0	865.1	853.0	854.5	842.4	822.8	808.2	792.1	782.5	768.9
7.5°	895.8	897.3	902.3	900.3	890.2	890.2	877.1	851.5	823.3	817.8	795.1
10°	922.9	923.4	917.9	919.4	933.5	927.0	915.4	904.3	868.1	861.5	821.3
12.5°	932.5	923.4	932.5	940.5	957.1	966.2	963.7	955.6	916.9	912.4	853.5
15°	934.0	928.5	936.0	954.1	968.7	1007.0	1026.1	1020.6	969.2	969.7	889.7
17.5°	927.0	934.5	937.5	953.1	986.8	1022.6	1077.9	1085.5	1043.2	1036.7	935.5
20°	936.5	931.0	935.0	949.1	993.9	1049.7	1122.2	1172.0	1112.6	1108.1	982.8
22.5°	973.3	965.7	964.7	973.8	1006.0	1063.8	1169.0	1258.6	1197.2	1199.7	1041.7
25°	1001.9	1006.0	1002.4	1001.9	1022.1	1085.0	1230.9	1361.7	1311.9	1297.3	1111.1
27.5°	1051.3	1060.8	1053.8	1063.3	1058.8	1116.7	1275.2	1476.0	1435.7	1416.1	1174.0
30°	1119.7	1124.7	1118.2	1118.2	1104.6	1161.0	1315.4	1595.2	1578.6	1552.0	1248.0
32.5°	1209.8	1217.3	1204.2	1196.7	1194.7	1226.9	1387.9	1713.0	1741.2	1718.5	1346.1
35°	1329.0	1324.5	1308.9	1301.9	1274.7	1328.0	1495.6	1848.4	1922.3	1882.1	1464.9
37.5°	1434.2	1427.2	1426.2	1386.9	1393.5	1437.2	1587.2	1951.0	2098.0	2086.4	1590.2
40°	1532.3	1538.9	1549.5	1527.3	1517.2	1565.6	1693.9	2029.5	2234.4	2229.8	1686.8
42.5°	1637.5	1631.5	1650.1	1631.5	1616.4	1684.8	1809.6	2083.9	2354.1	2316.9	1788.0
45°	1790.0	1770.9	1777.4	1778.9	1767.9	1793.0	1857.4	2123.1	2438.2	2434.1	1862.0
47.5°	1917.3	1917.8	1906.7	1898.2	1864.5	1889.6	1910.8	2147.8	2534.8	2528.2	1890.6
50°	1964.6	1958.1	1990.3	2008.9	2010.9	1959.6	1952.5	2161.4	2585.6	2556.9	1919.3
52.5°	1794.5	1800.6	1851.4	1962.1	2026.0	2031.5	2001.4	2189.6	2606.2	2600.2	1942.5
55°	1444.3	1473.5	1557.0	1684.8	1836.3	2002.9	2054.2	2218.8	2617.3	2612.3	2045.1
56°	1269.7	1292.3	1401.0	1501.1	1691.4	1898.7	2021.0	2250.0	2625.9	2649.5	2069.3
57.5°	1022.1	1048.2	1126.2	1240.0	1464.4	1700.4	1929.4	2211.7	2592.7	2601.7	2086.9
60°	639.1	641.6	735.2	810.2	968.2	1198.7	1472.5	1924.4	2399.4	2386.3	1874.5
62.5°	419.2	419.7	504.7	566.1	638.1	690.9	866.6	1276.2	1770.4	1747.2	1334.6
65°	294.4	300.9	366.9	448.9	478.1	450.4	444.9	672.8	988.9	955.6	717.1
67.5°	215.4	215.9	274.3	362.3	404.6	342.7	278.3	328.6	391.5	390.5	332.1
70°	142.4	148.5	193.2	270.7	319.0	275.3	227.5	235.0	249.1	249.1	247.1
72.5°	83.0	88.6	118.3	171.6	179.2	172.1	180.2	201.3	210.4	209.8	207.3
75°	47.3	49.8	56.4	71.5	89.1	105.2	132.4	152.5	161.5	167.1	160.5
77.5°	27.7	29.2	33.2	40.8	46.3	56.9	72.0	86.1	98.1	96.6	97.6
80°	14.6	14.6	18.6	24.2	32.2	40.3	47.8	55.9	62.4	63.9	65.4
82.5°	8.6	9.1	12.1	17.6	23.1	28.7	36.7	42.3	48.3	48.8	49.8
85°	4.5	5.0	7.5	11.6	15.6	17.6	18.1	17.1	18.6	17.6	20.1
87.5°	1.5	1.5	2.5	2.0	2.0	2.5	3.0	3.0	4.0	4.0	4.0
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°	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8
2.5°	746.8	746.8	738.2	722.1	719.6	713.1	707.0	706.5	702.0	698.0	696.0
5°	760.9	745.3	732.7	718.1	701.0	693.0	683.9	673.8	669.8	673.8	673.3
7.5°	777.0	763.9	726.2	699.0	679.4	671.3	661.2	650.7	651.7	651.7	644.6
10°	792.6	775.0	714.6	679.9	651.2	645.1	639.6	643.6	648.7	649.7	645.1
12.5°	818.8	779.0	709.1	660.7	642.6	629.5	633.1	644.1	654.7	651.7	655.2
15°	838.4	782.5	683.9	641.1	618.5	624.5	637.1	644.6	662.3	660.2	663.8
17.5°	857.5	784.5	659.2	614.9	605.4	622.0	631.6	653.2	658.7	670.8	675.3
20°	896.8	788.6	634.1	598.8	595.8	614.9	631.6	641.6	653.7	664.3	664.3
22.5°	916.9	786.6	617.5	577.7	587.3	599.3	614.4	631.6	631.6	641.6	642.1
25°	942.1	778.5	591.3	567.6	574.7	586.3	603.4	597.3	603.9	603.9	611.9
27.5°	970.7	761.4	568.7	549.5	563.6	576.2	578.7	574.7	567.1	566.1	563.1
30°	993.9	740.3	552.0	543.5	555.1	562.1	554.1	545.5	532.4	531.4	524.4
32.5°	1025.6	714.1	531.4	528.4	541.5	542.0	539.5	526.4	507.3	499.2	491.2
35°	1078.9	699.0	515.8	520.3	524.4	522.9	518.3	504.2	485.1	481.6	478.6
37.5°	1118.2	687.9	499.7	505.2	508.8	510.8	497.2	481.6	482.1	475.1	473.0
40°	1162.5	680.9	486.6	489.1	489.6	496.2	479.6	472.0	475.6	471.0	474.0
42.5°	1219.3	682.9	473.0	471.0	480.6	478.1	470.0	460.0	462.0	448.4	450.4
45°	1249.5	696.5	465.0	455.9	466.5	466.0	455.4	445.9	433.8	407.6	408.6
47.5°	1269.7	700.0	445.9	439.8	450.9	457.4	445.4	423.2	406.1	387.5	383.0
50°	1290.3	706.5	436.8	424.2	428.8	444.4	429.3	408.1	391.5	374.9	377.4
52.5°	1308.4	719.1	419.2	400.6	408.6	425.7	417.7	392.0	373.9	360.3	356.3
55°	1388.9	747.3	389.5	365.3	384.5	406.1	401.6	370.4	350.8	343.7	342.7
56°	1401.5	748.3	373.9	353.3	370.9	399.6	394.0	360.8	343.2	332.1	332.6
57.5°	1403.5	736.2	351.8	342.2	357.3	390.0	383.0	353.3	329.1	319.0	316.0
60°	1234.9	574.7	324.1	318.0	335.7	360.8	358.3	332.6	305.5	293.9	299.4
62.5°	841.9	421.2	302.4	301.4	310.5	335.2	328.6	305.5	282.8	275.3	271.7
65°	490.1	319.6	281.3	277.3	284.8	297.9	302.4	278.3	254.6	249.6	248.1
67.5°	289.4	264.2	254.1	247.6	245.1	253.1	256.6	242.6	218.9	211.9	217.9
70°	242.1	235.0	235.5	224.4	218.4	212.9	209.8	197.3	177.6	168.6	166.1
72.5°	208.8	205.8	203.8	193.7	188.2	175.6	162.5	150.0	135.4	127.8	128.3
75°	159.5	158.5	159.5	154.5	144.9	134.9	122.8	106.7	95.6	86.1	88.1
77.5°	95.1	98.1	99.6	97.6	93.6	84.5	77.0	66.4	55.9	48.3	47.3
80°	65.4	67.9	70.5	67.9	63.9	57.4	49.3	41.3	33.7	29.7	28.7
82.5°	49.8	52.3	53.8	51.3	46.3	39.3	33.7	28.2	22.1	18.1	17.1
85°	18.1	20.6	20.1	24.2	26.2	25.2	21.6	16.6	12.6	9.1	8.6
87.5°	5.0	4.5	5.0	5.0	5.0	4.5	4.0	4.0	4.0	2.5	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)