

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: P646744

Luminaire Tested: **GALN-SA1C-835-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5676.8 lumens
Efficiency: N/A
Efficacy: 99.6 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

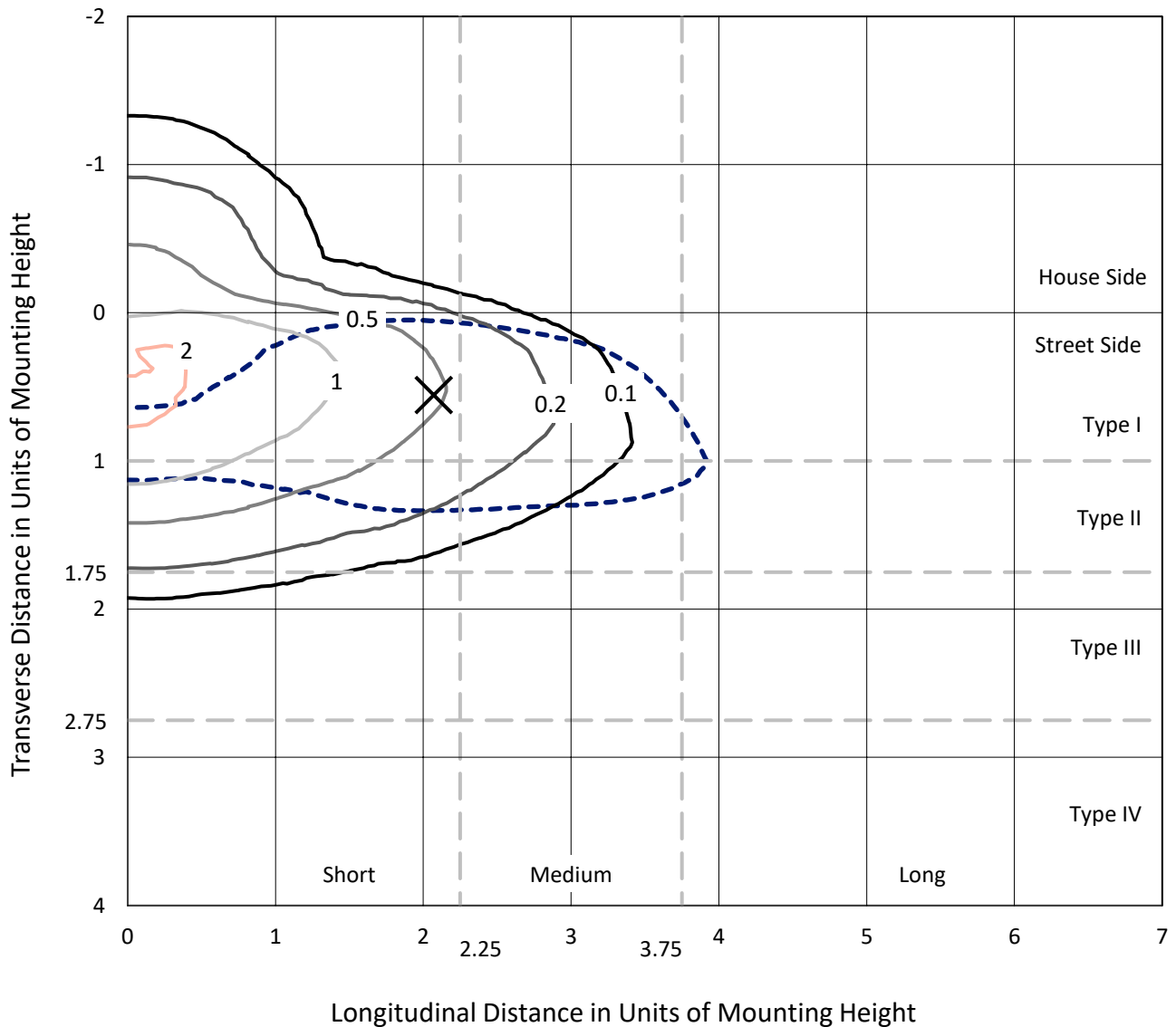
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

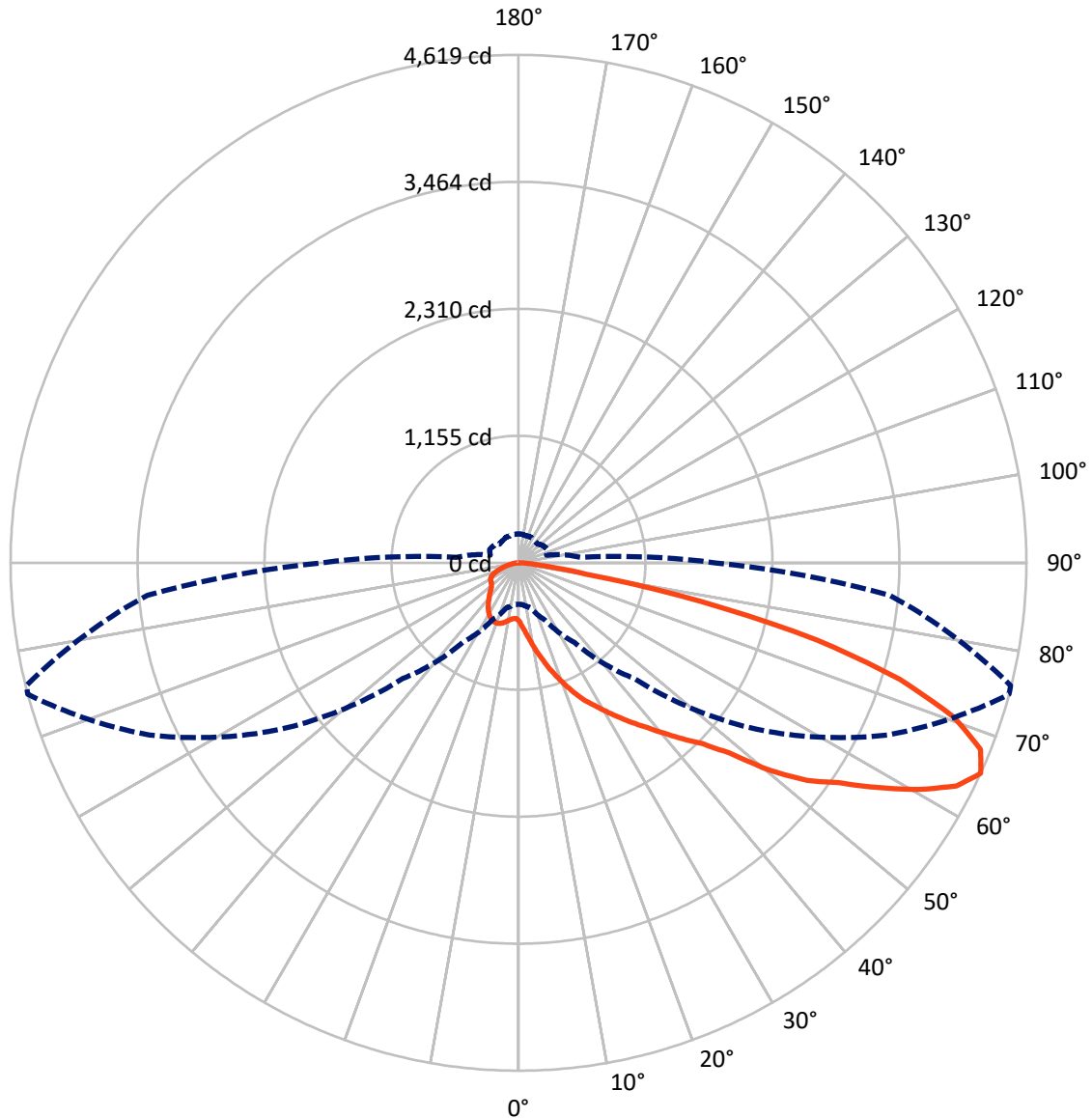
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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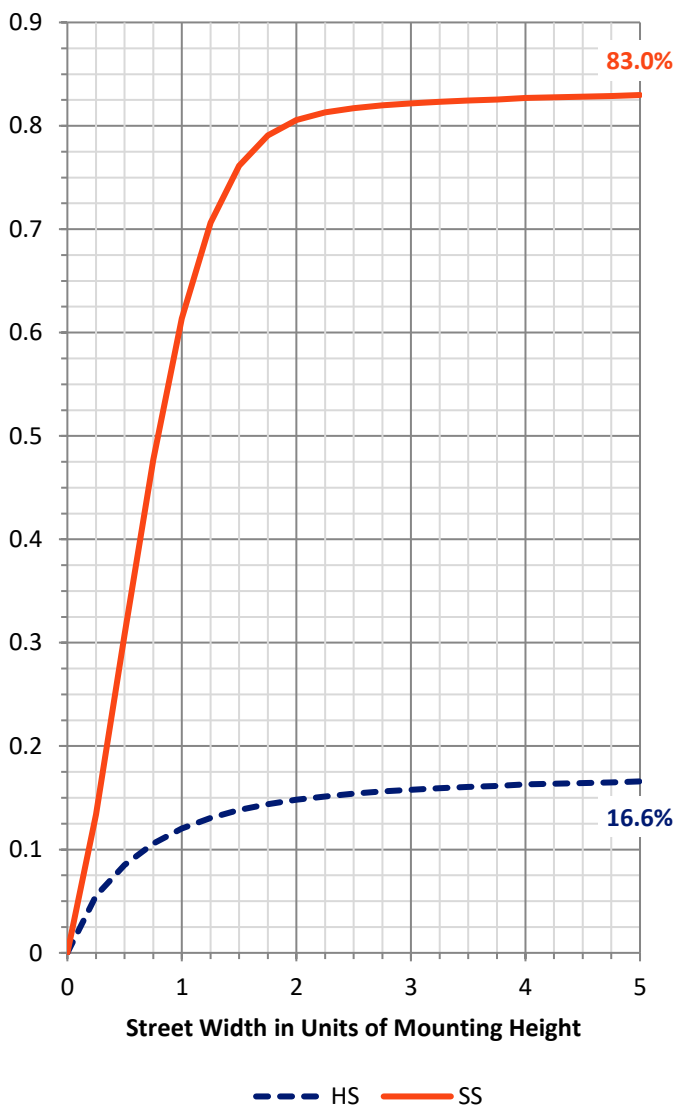
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	954.3	0.0	954.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	4722.4	0.0	4722.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	5676.8	0.0	5676.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	1.1
10°-20°	251.0	4.4
20°-30°	484.9	8.5
30°-40°	787.5	13.9
40°-50°	1083.3	19.1
50°-60°	1279.1	22.5
60°-70°	1120.7	19.7
70°-80°	535.0	9.4
80°-90°	71.2	1.3
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°	5676.8	100.0
0°-180°	5676.8	100.0

Coefficient of Utilization

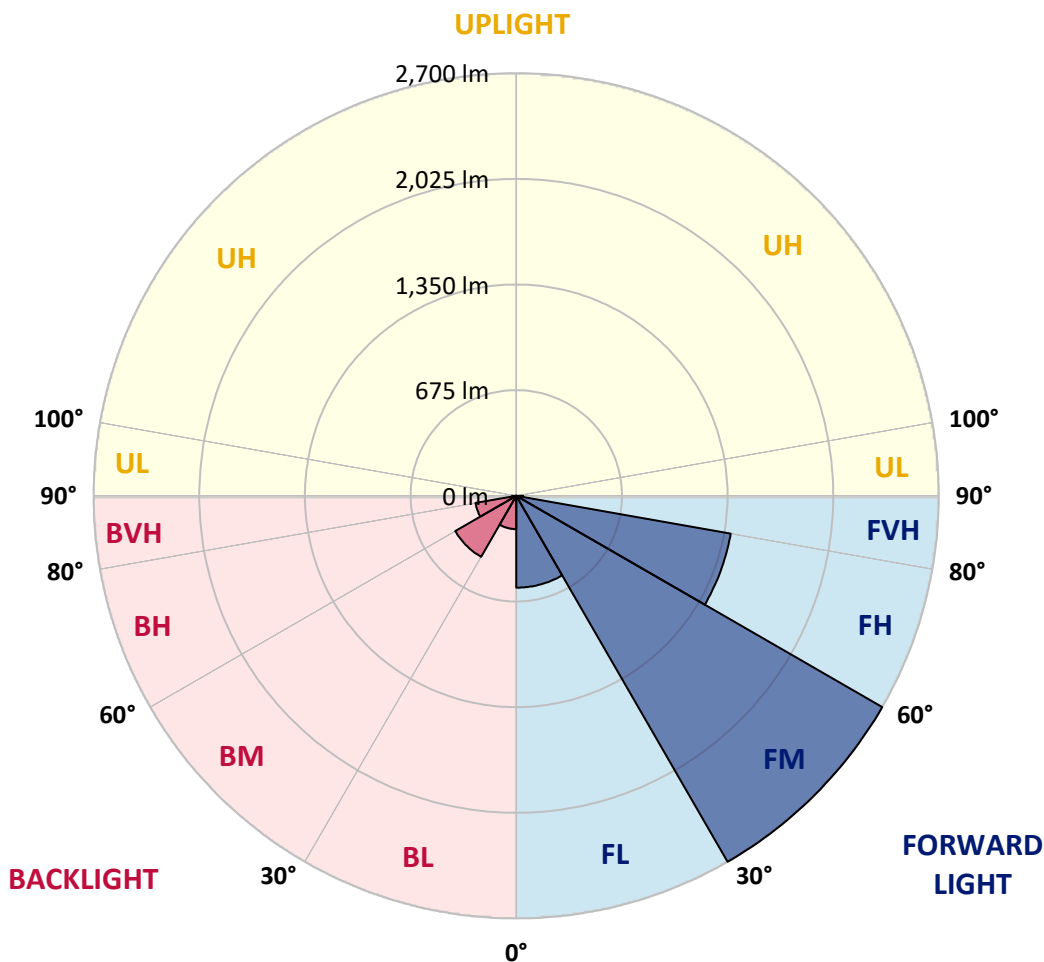


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	586.9	10.3			
FM (30°-60°)	2700.0	47.6			
FH (60°-80°)	1391.1	24.5			G1/1800
FVH (80°-90°)	44.5	0.8			G1/100
BL (0°-30°)	213.1	3.8	B1/500		
BM (30°-60°)	450.0	7.9	B1/1000		
BH (60°-80°)	264.6	4.7	B1/500		G1/500
BVH (80°-90°)	26.7	0.5			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°	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4
2.5°	700.8	696.2	691.2	677.7	663.2	646.9	623.5	601.0	571.2	570.3	548.1
5°	895.0	892.0	870.1	857.5	824.0	779.3	741.4	682.6	628.1	621.6	578.6
7.5°	1073.6	1061.7	1053.4	1030.6	997.3	940.1	866.8	787.3	696.2	687.6	616.1
10°	1208.2	1207.0	1202.7	1183.0	1158.1	1101.1	1019.8	905.9	782.4	765.5	661.7
12.5°	1308.9	1309.8	1309.2	1308.9	1291.0	1242.7	1154.6	1034.6	869.5	857.5	714.3
15°	1375.1	1384.3	1388.0	1403.4	1404.9	1372.7	1296.9	1158.9	967.7	949.9	771.0
17.5°	1418.8	1423.4	1440.7	1466.9	1488.1	1482.2	1414.8	1274.1	1068.1	1038.3	829.8
20°	1460.7	1468.7	1482.0	1517.7	1555.2	1572.5	1525.0	1392.0	1167.6	1148.5	894.7
22.5°	1547.8	1559.3	1563.9	1582.1	1614.1	1644.5	1623.0	1505.0	1276.6	1250.7	963.7
25°	1695.4	1707.3	1694.4	1690.1	1700.6	1715.6	1711.0	1611.6	1379.4	1342.5	1029.0
27.5°	1887.4	1889.0	1863.8	1839.7	1813.9	1806.1	1792.0	1706.1	1468.7	1437.9	1094.6
30°	2093.7	2086.4	2044.5	2001.1	1957.3	1914.3	1873.6	1797.2	1568.2	1532.7	1158.9
32.5°	2285.3	2281.3	2234.8	2167.3	2093.4	2052.8	1970.6	1889.3	1674.7	1640.5	1225.2
35°	2428.8	2434.6	2383.5	2309.9	2229.2	2193.2	2089.4	1986.0	1784.9	1747.7	1297.2
37.5°	2530.7	2527.6	2482.3	2418.6	2347.7	2316.3	2228.3	2091.6	1903.5	1867.8	1376.0
40°	2567.0	2565.2	2531.6	2485.1	2440.1	2429.1	2373.7	2205.6	2039.2	1997.4	1470.9
42.5°	2543.9	2547.9	2525.7	2513.1	2504.8	2512.8	2518.0	2354.9	2187.4	2148.9	1573.7
45°	2473.1	2470.9	2467.9	2488.5	2535.3	2588.0	2660.9	2495.9	2348.4	2317.6	1711.6
47.5°	2346.6	2361.9	2369.7	2426.6	2528.9	2653.5	2825.4	2684.9	2582.1	2555.3	1922.0
50°	2169.5	2181.8	2227.4	2328.7	2481.1	2678.2	2986.0	2994.0	2971.9	2921.7	2150.4
52.5°	1893.0	1912.1	2006.0	2191.7	2383.2	2668.0	3083.4	3259.2	3288.4	3250.9	2375.5
55°	1583.5	1610.3	1709.5	1953.0	2248.3	2612.6	3150.5	3412.8	3529.5	3494.8	2592.3
57.5°	1280.6	1308.9	1410.8	1646.6	2013.1	2490.0	3194.5	3584.0	3857.8	3812.5	2861.9
60°	959.7	989.3	1076.8	1319.7	1678.0	2250.5	3164.7	3732.4	4185.7	4166.3	3132.0
62.5°	619.2	651.8	727.9	929.0	1289.8	1923.2	3004.8	3814.3	4469.5	4446.2	3329.1
65°	377.2	380.9	422.7	576.7	882.8	1489.0	2639.3	3705.6	4619.2	4612.1	3389.1
67.5°	243.8	249.7	268.8	345.5	529.3	1034.3	2110.4	3346.9	4531.8	4529.3	3265.0
70°	206.0	207.8	216.4	233.1	307.6	627.2	1482.0	2775.2	4199.5	4199.5	2966.6
72.5°	184.2	186.6	189.6	194.9	219.6	355.3	884.3	2160.3	3625.9	3649.9	2525.1
75°	167.2	166.5	168.4	169.4	187.2	232.2	457.3	1597.7	2805.0	2757.0	1828.6
77.5°	143.2	144.1	143.2	147.2	165.4	176.7	232.2	1072.2	1700.0	1637.7	917.8
80°	117.6	119.2	120.7	123.2	141.3	134.3	139.5	488.7	628.7	615.5	283.6
82.5°	88.4	90.5	93.0	98.8	111.2	88.7	88.1	208.7	226.9	207.8	104.4
85°	35.7	42.2	63.7	69.6	69.9	48.6	54.2	87.1	92.7	90.5	41.0
87.5°	8.3	9.9	20.6	31.1	28.7	18.2	20.0	28.3	32.3	29.8	13.9
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°	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4
2.5°	537.9	527.1	508.6	494.5	484.4	475.4	469.9	466.5	465.3	464.9	465.3
5°	556.1	537.0	507.7	489.3	479.1	473.2	469.9	469.6	469.9	470.2	469.3
7.5°	581.0	553.6	515.4	498.2	490.5	486.2	484.7	484.1	484.4	484.1	484.1
10°	614.3	576.7	530.5	512.6	506.2	501.3	498.8	497.3	496.0	494.8	494.2
12.5°	650.9	602.3	546.8	529.6	520.4	512.6	507.1	503.2	500.3	497.6	497.0
15°	691.9	629.4	565.0	541.0	527.7	516.4	506.8	500.3	495.4	491.4	491.1
17.5°	730.9	654.9	577.3	546.2	526.8	510.8	498.2	489.3	483.1	477.9	477.2
20°	772.8	679.3	582.9	542.9	517.6	498.2	481.5	470.8	463.7	457.8	457.0
22.5°	815.0	699.8	582.2	532.0	501.6	478.8	461.3	449.8	441.5	435.7	433.5
25°	855.3	716.5	574.6	514.8	479.4	455.7	437.9	427.4	420.0	412.9	412.9
27.5°	891.7	726.3	560.1	493.9	456.6	431.7	417.5	407.9	401.2	396.6	393.8
30°	927.4	730.9	540.3	467.4	432.6	411.4	400.0	394.4	388.3	383.0	382.4
32.5°	959.4	730.1	515.8	441.5	409.8	394.7	390.1	385.8	379.4	371.9	370.1
35°	990.5	723.9	486.5	413.2	390.7	384.8	386.1	380.0	368.2	359.0	357.4
37.5°	1024.4	712.8	454.5	390.1	374.7	380.2	383.4	369.8	350.7	336.2	332.9
40°	1063.5	700.2	421.2	367.0	362.1	375.9	375.9	351.0	324.9	315.9	313.4
42.5°	1109.4	689.7	393.5	347.7	351.6	365.5	363.9	326.0	315.3	310.7	309.4
45°	1182.0	686.0	364.9	330.7	343.0	353.1	340.5	317.4	311.3	307.6	306.4
47.5°	1296.9	690.3	339.6	318.1	333.2	340.8	314.4	311.6	307.3	302.1	301.5
50°	1403.4	686.3	321.7	311.0	324.6	326.0	303.6	304.5	302.1	296.2	295.0
52.5°	1490.6	673.7	310.4	307.3	317.1	300.2	293.5	296.8	295.9	288.5	287.3
55°	1586.4	666.0	304.8	307.3	312.2	277.7	283.9	288.8	287.6	282.3	282.0
57.5°	1702.4	667.5	300.8	308.2	307.3	266.4	274.4	280.2	279.9	278.4	278.4
60°	1821.3	668.1	294.6	307.9	301.5	257.4	264.5	272.8	273.4	274.4	274.4
62.5°	1860.6	641.4	282.7	302.4	288.5	248.8	255.3	266.6	266.1	268.5	268.8
65°	1787.1	567.1	264.8	289.7	271.9	242.7	248.1	258.6	255.3	261.8	262.9
67.5°	1626.7	469.3	237.1	266.9	253.4	236.2	243.6	247.6	241.4	254.0	254.3
70°	1405.9	366.4	202.0	234.6	232.5	229.4	239.8	233.7	225.1	240.5	237.4
72.5°	1175.6	279.9	161.4	191.8	204.4	219.2	233.4	215.9	203.8	208.4	202.9
75°	883.1	206.9	129.7	150.3	170.3	204.8	227.5	194.3	175.8	171.5	170.3
77.5°	450.1	135.1	97.0	112.4	127.8	185.0	219.6	169.0	145.6	138.9	135.8
80°	160.7	84.1	68.4	77.6	86.2	159.2	191.8	139.8	113.0	111.7	113.0
82.5°	74.5	54.2	45.9	50.8	51.1	106.3	146.3	104.4	85.9	130.5	110.2
85°	32.0	27.1	25.8	25.2	23.4	47.4	82.2	56.1	87.5	39.1	36.0
87.5°	9.6	10.8	9.6	7.0	5.2	5.2	8.3	3.1	2.2	1.6	1.6
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)