

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: P650704

Luminaire Tested: **GALN-SA1C-840-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650704
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-840-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6097.3 lumens
Efficiency: N/A
Efficacy: 107.0 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

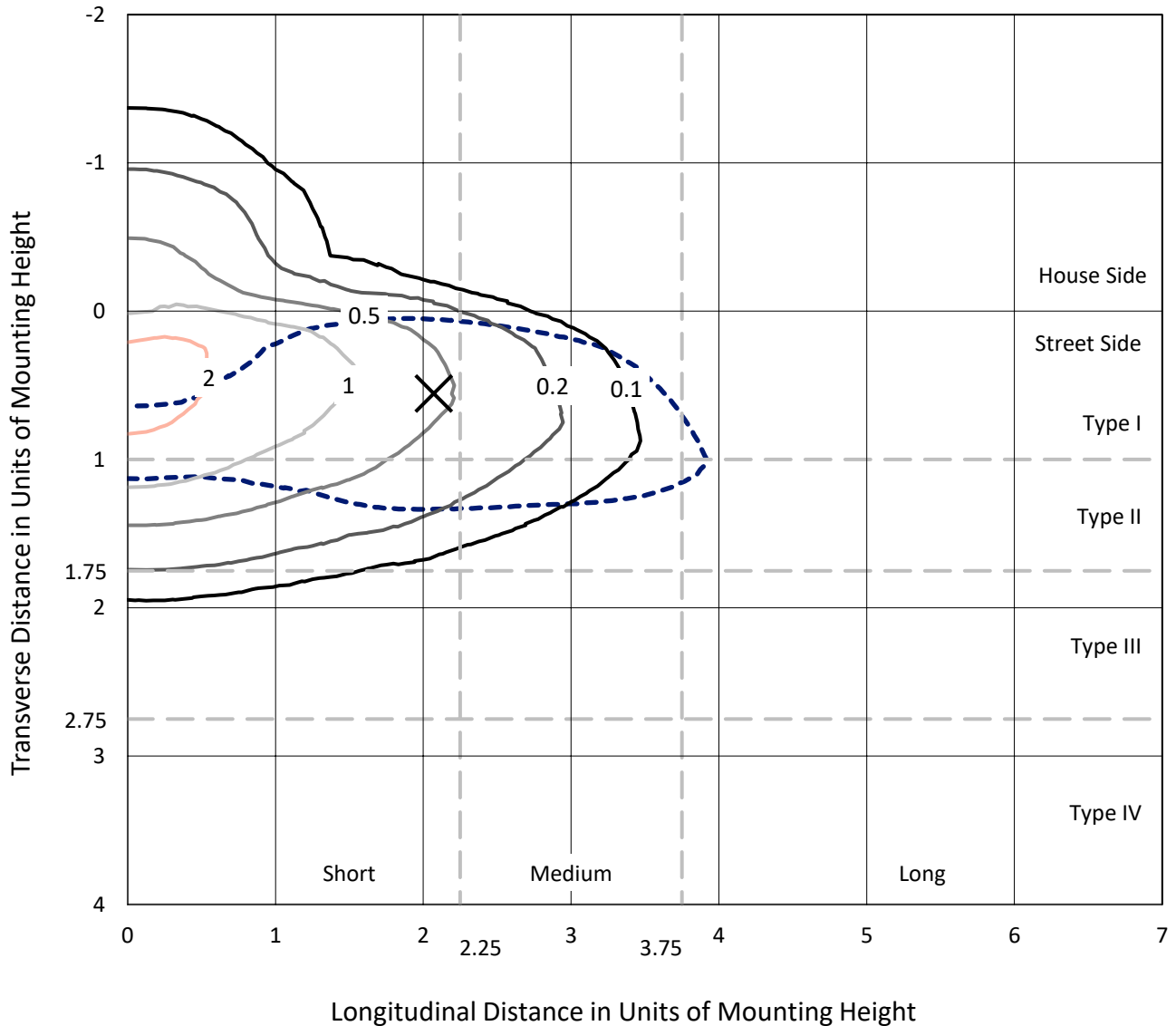
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

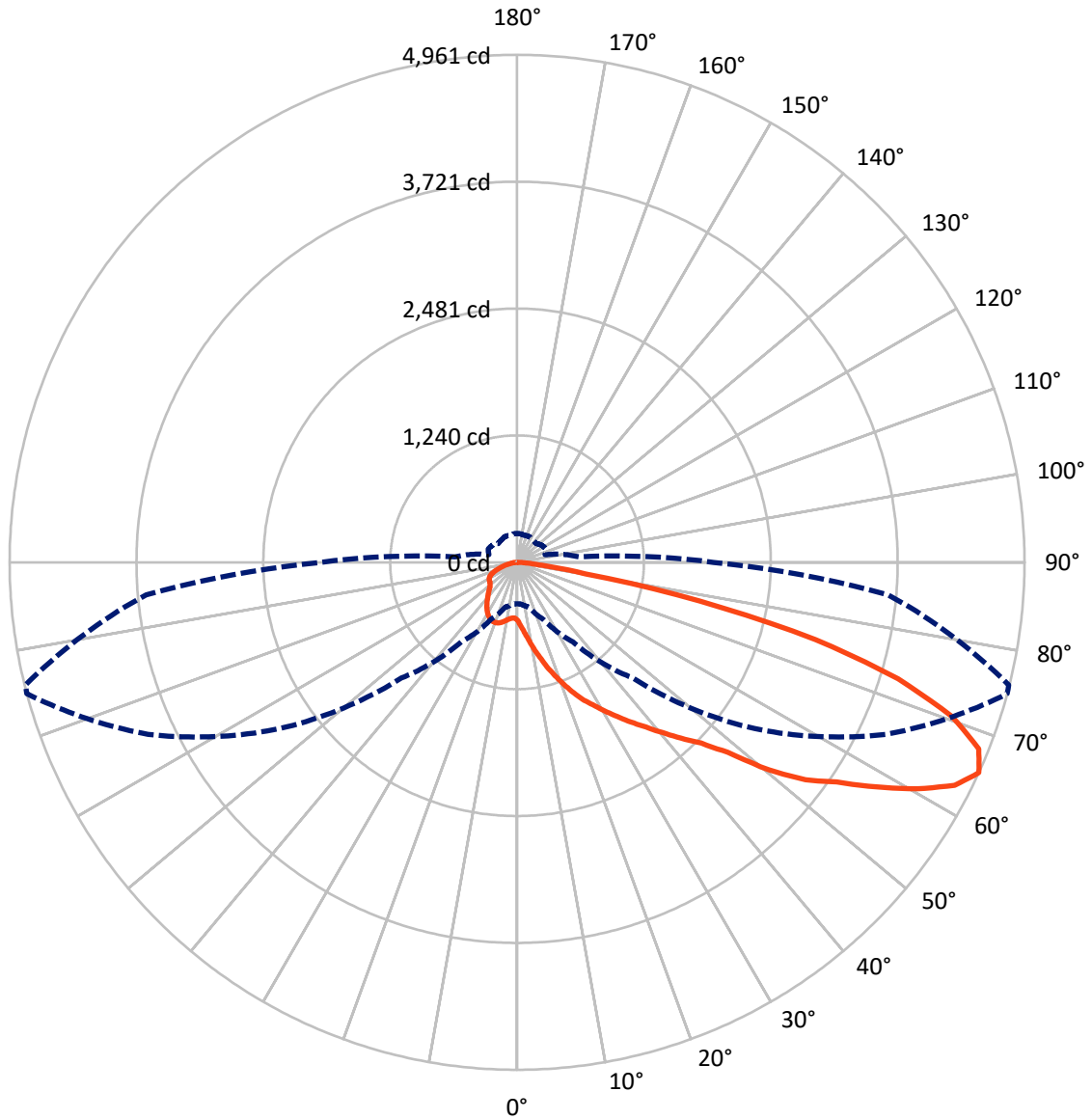
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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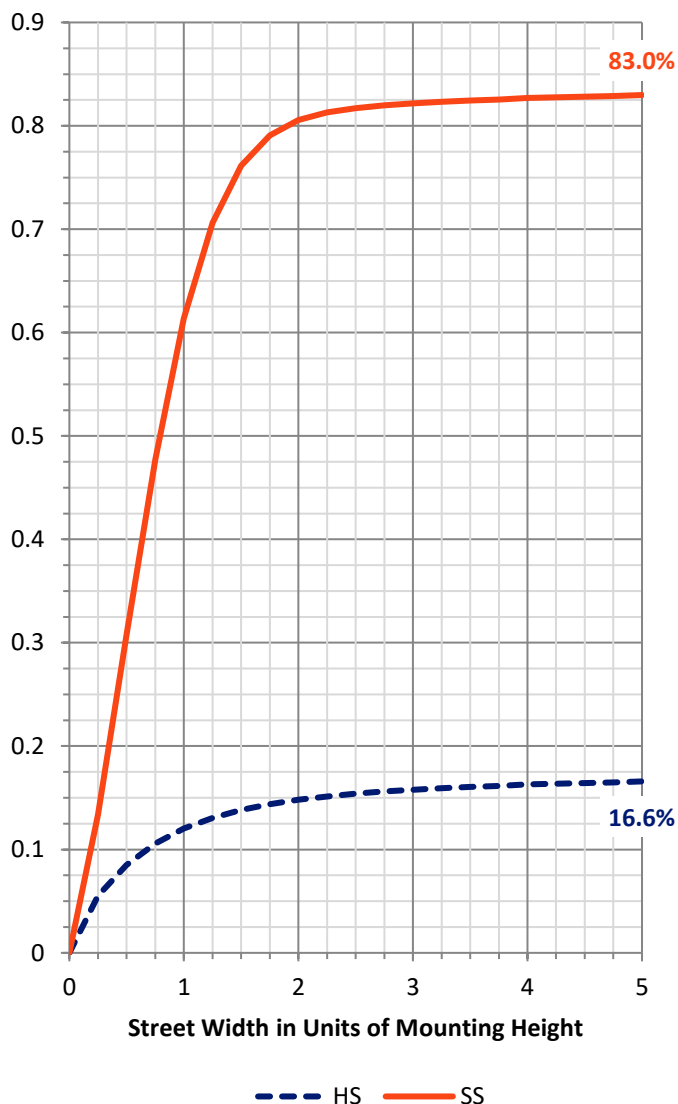
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1025.0	0.0	1025.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	5072.2	0.0	5072.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	6097.3	0.0	6097.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	1.1
10°-20°	269.6	4.4
20°-30°	520.8	8.5
30°-40°	845.9	13.9
40°-50°	1163.6	19.1
50°-60°	1373.8	22.5
60°-70°	1203.7	19.7
70°-80°	574.6	9.4
80°-90°	76.5	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°	6097.3	100.0
0°-180°	6097.3	100.0

Coefficient of Utilization

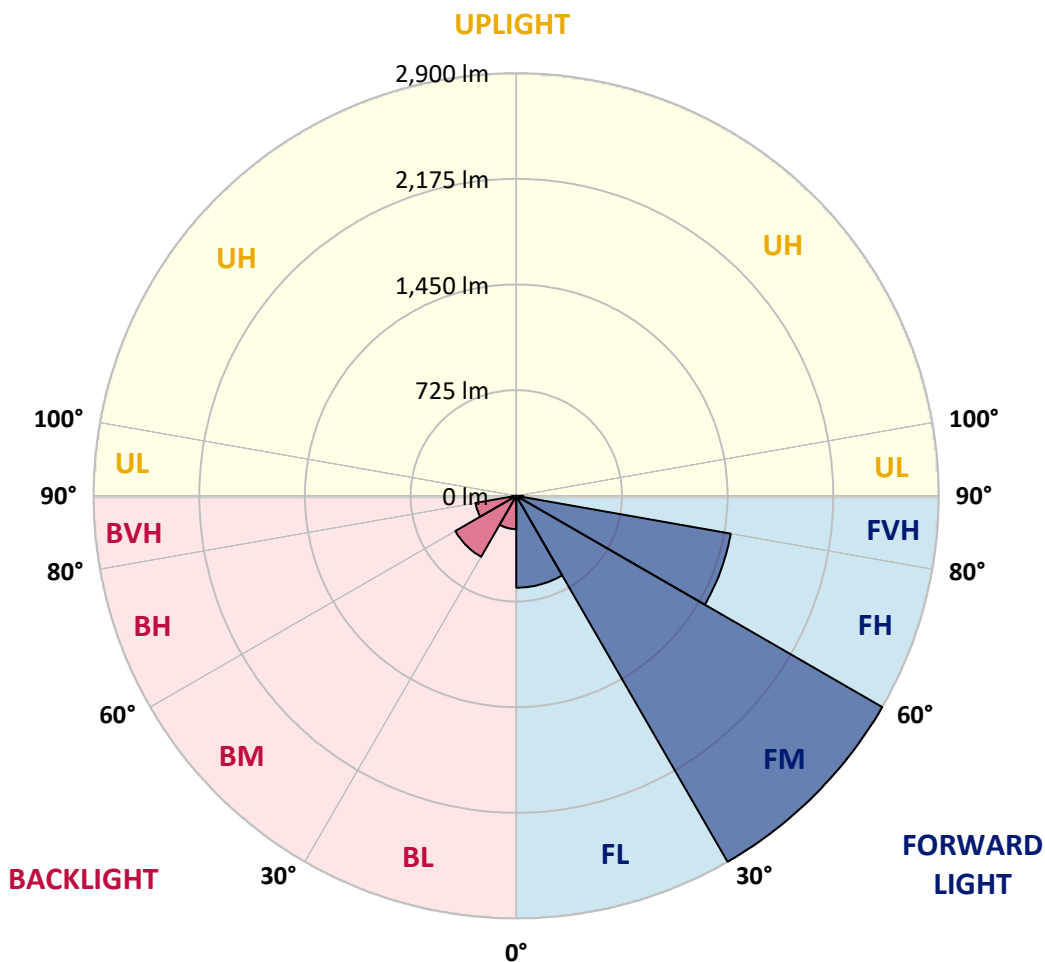


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	630.4	10.3			
FM (30°-60°)	2900.0	47.6			
FH (60°-80°)	1494.1	24.5			G1/1800
FVH (80°-90°)	47.8	0.8			G1/100
BL (0°-30°)	228.8	3.8	B1/500		
BM (30°-60°)	483.3	7.9	B1/1000		
BH (60°-80°)	284.2	4.7	B1/500		G1/500
BVH (80°-90°)	28.7	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°	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5
2.5°	752.7	747.7	742.4	727.9	712.3	694.8	669.7	645.6	613.5	612.5	588.7
5°	961.3	958.1	934.6	921.1	885.0	837.0	796.3	733.2	674.7	667.7	621.4
7.5°	1153.2	1140.3	1131.4	1106.9	1071.2	1009.7	931.0	845.6	747.7	738.5	661.8
10°	1297.7	1296.4	1291.8	1270.6	1243.8	1182.6	1095.3	973.0	840.3	822.2	710.7
12.5°	1405.9	1406.8	1406.2	1405.9	1386.6	1334.8	1240.1	1111.2	933.9	921.1	767.2
15°	1477.0	1486.9	1490.8	1507.4	1509.0	1474.4	1392.9	1244.8	1039.4	1020.2	828.1
17.5°	1523.9	1528.9	1547.4	1575.5	1598.3	1592.0	1519.6	1368.5	1147.2	1115.2	891.3
20°	1568.9	1577.5	1591.8	1630.1	1670.4	1689.0	1638.0	1495.1	1254.1	1233.6	961.0
22.5°	1662.5	1674.8	1679.7	1699.2	1733.6	1766.4	1743.2	1616.5	1371.2	1343.3	1035.1
25°	1820.9	1833.8	1819.9	1815.3	1826.6	1842.7	1837.8	1730.9	1481.6	1441.9	1105.2
27.5°	2027.2	2028.9	2001.8	1976.0	1948.3	1939.9	1924.7	1832.5	1577.5	1544.4	1175.7
30°	2248.8	2240.9	2195.9	2149.3	2102.3	2056.1	2012.4	1930.3	1684.4	1646.3	1244.8
32.5°	2454.5	2450.3	2400.3	2327.9	2248.5	2204.8	2116.5	2029.2	1798.7	1762.1	1315.9
35°	2608.7	2614.9	2560.1	2481.0	2394.3	2355.6	2244.2	2133.1	1917.1	1877.1	1393.3
37.5°	2718.1	2714.8	2666.2	2597.8	2521.7	2487.9	2393.4	2246.6	2044.5	2006.1	1478.0
40°	2757.1	2755.2	2719.1	2669.2	2620.9	2609.0	2549.5	2368.9	2190.3	2145.3	1579.8
42.5°	2732.3	2736.6	2712.8	2699.3	2690.4	2698.9	2704.6	2529.3	2349.4	2308.0	1690.2
45°	2656.3	2653.9	2650.7	2672.8	2723.1	2779.7	2858.1	2680.8	2522.3	2489.3	1838.4
47.5°	2520.4	2536.9	2545.2	2606.3	2716.2	2850.1	3034.7	2883.8	2773.4	2744.6	2064.3
50°	2330.2	2343.4	2392.4	2501.2	2664.9	2876.6	3207.2	3215.8	3192.0	3138.1	2309.7
52.5°	2033.2	2053.7	2154.6	2354.0	2559.8	2865.6	3311.8	3500.6	3532.0	3491.7	2551.4
55°	1700.8	1729.6	1836.2	2097.7	2414.8	2806.1	3383.8	3665.6	3791.0	3753.6	2784.3
57.5°	1375.5	1405.9	1515.3	1768.6	2162.2	2674.5	3431.1	3849.5	4143.5	4094.9	3073.9
60°	1030.8	1062.6	1156.5	1417.4	1802.3	2417.2	3399.1	4008.9	4495.7	4474.9	3364.0
62.5°	665.1	700.1	781.8	997.8	1385.4	2065.7	3227.4	4096.8	4800.6	4775.5	3575.7
65°	405.1	409.1	454.1	619.4	948.1	1599.3	2834.8	3980.1	4961.4	4953.7	3640.2
67.5°	261.9	268.2	288.7	371.0	568.5	1110.9	2266.7	3594.9	4867.5	4864.8	3506.9
70°	221.3	223.2	232.5	250.4	330.3	673.6	1591.8	2980.8	4510.6	4510.6	3186.4
72.5°	197.8	200.4	203.7	209.3	235.8	381.6	949.8	2320.3	3894.5	3920.2	2712.1
75°	179.6	178.9	180.9	181.9	201.1	249.4	491.1	1716.1	3012.8	2961.2	1964.1
77.5°	153.8	154.7	153.8	158.1	177.6	189.8	249.4	1151.6	1825.9	1759.0	985.8
80°	126.3	128.0	129.6	132.3	151.8	144.2	149.8	524.9	675.3	661.1	304.6
82.5°	94.9	97.2	99.9	106.1	119.4	95.3	94.6	224.2	243.7	223.2	112.1
85°	38.3	45.3	68.5	74.8	75.1	52.2	58.2	93.6	99.6	97.2	44.0
87.5°	8.9	10.6	22.1	33.4	30.8	19.5	21.5	30.4	34.7	32.0	14.9
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°	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5
2.5°	577.8	566.2	546.3	531.1	520.2	510.7	504.7	501.1	499.7	499.4	499.7
5°	597.3	576.8	545.3	525.5	514.6	508.3	504.7	504.3	504.7	505.0	504.0
7.5°	624.0	594.6	553.6	535.1	526.8	522.2	520.6	519.9	520.2	519.9	519.9
10°	659.8	619.4	569.8	550.6	543.7	538.4	535.7	534.1	532.8	531.4	530.8
12.5°	699.1	646.9	587.4	568.9	558.9	550.6	544.7	540.4	537.4	534.5	533.8
15°	743.1	676.0	606.9	581.0	566.8	554.6	544.4	537.4	532.1	527.8	527.5
17.5°	785.1	703.4	620.1	586.7	565.8	548.7	535.1	525.5	518.9	513.3	512.6
20°	830.1	729.6	626.0	583.1	555.9	535.1	517.2	505.7	498.0	491.7	490.8
22.5°	875.4	751.7	625.4	571.5	538.7	514.3	495.4	483.2	474.2	467.9	465.7
25°	918.7	769.6	617.1	553.0	514.9	489.5	470.3	459.0	451.1	443.5	443.5
27.5°	957.7	780.1	601.6	530.5	490.5	463.6	448.4	438.2	430.9	426.0	423.0
30°	996.1	785.1	580.4	502.0	464.7	441.9	429.6	423.6	417.1	411.4	410.7
32.5°	1030.5	784.1	554.0	474.2	440.2	423.9	419.0	414.4	407.5	399.5	397.5
35°	1063.9	777.5	522.5	443.8	419.7	413.4	414.7	408.1	395.5	385.6	383.9
37.5°	1100.3	765.6	488.1	419.0	402.5	408.4	411.8	397.2	376.7	361.1	357.5
40°	1142.2	752.0	452.4	394.2	388.9	403.8	403.8	377.0	348.9	339.3	336.7
42.5°	1191.5	740.8	422.7	373.4	377.7	392.6	390.9	350.2	338.7	333.7	332.4
45°	1269.6	736.8	391.9	355.2	368.4	379.3	365.8	340.9	334.4	330.3	329.1
47.5°	1392.9	741.4	364.7	341.6	357.8	366.1	337.7	334.7	330.1	324.5	323.8
50°	1507.4	737.1	345.6	334.0	348.6	350.2	326.1	327.1	324.5	318.2	316.8
52.5°	1601.0	723.6	333.4	330.1	340.6	322.4	315.2	318.8	317.8	309.9	308.6
55°	1703.9	715.4	327.4	330.1	335.3	298.3	304.9	310.2	308.9	303.3	302.9
57.5°	1828.5	717.0	323.1	331.0	330.1	286.1	294.7	300.9	300.7	299.0	299.0
60°	1956.2	717.6	316.5	330.7	323.8	276.4	284.1	293.0	293.7	294.7	294.7
62.5°	1998.5	688.9	303.6	324.8	309.9	267.2	274.2	286.4	285.8	288.4	288.7
65°	1919.5	609.1	284.4	311.2	292.0	260.6	266.5	277.8	274.2	281.1	282.4
67.5°	1747.2	504.0	254.7	286.7	272.1	253.6	261.6	265.9	259.3	272.8	273.2
70°	1510.0	393.6	217.0	252.0	249.7	246.4	257.6	251.0	241.8	258.3	255.0
72.5°	1262.7	300.7	173.3	206.0	219.6	235.5	250.7	231.9	218.9	223.9	217.9
75°	948.5	222.3	139.3	161.4	182.9	219.9	244.4	208.7	188.8	184.2	182.9
77.5°	483.5	145.2	104.2	120.7	137.3	198.7	235.8	181.6	156.4	149.2	145.8
80°	172.7	90.3	73.4	83.3	92.6	171.0	206.0	150.1	121.4	120.0	121.4
82.5°	80.1	58.2	49.3	54.6	54.9	114.1	157.1	112.1	92.3	140.2	118.4
85°	34.4	29.1	27.8	27.1	25.1	51.0	88.3	60.2	93.9	42.0	38.7
87.5°	10.3	11.6	10.3	7.6	5.6	5.6	8.9	3.3	2.4	1.7	1.7
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)