

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: P522625

Luminaire Tested: **GALN-SA1B-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5367 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

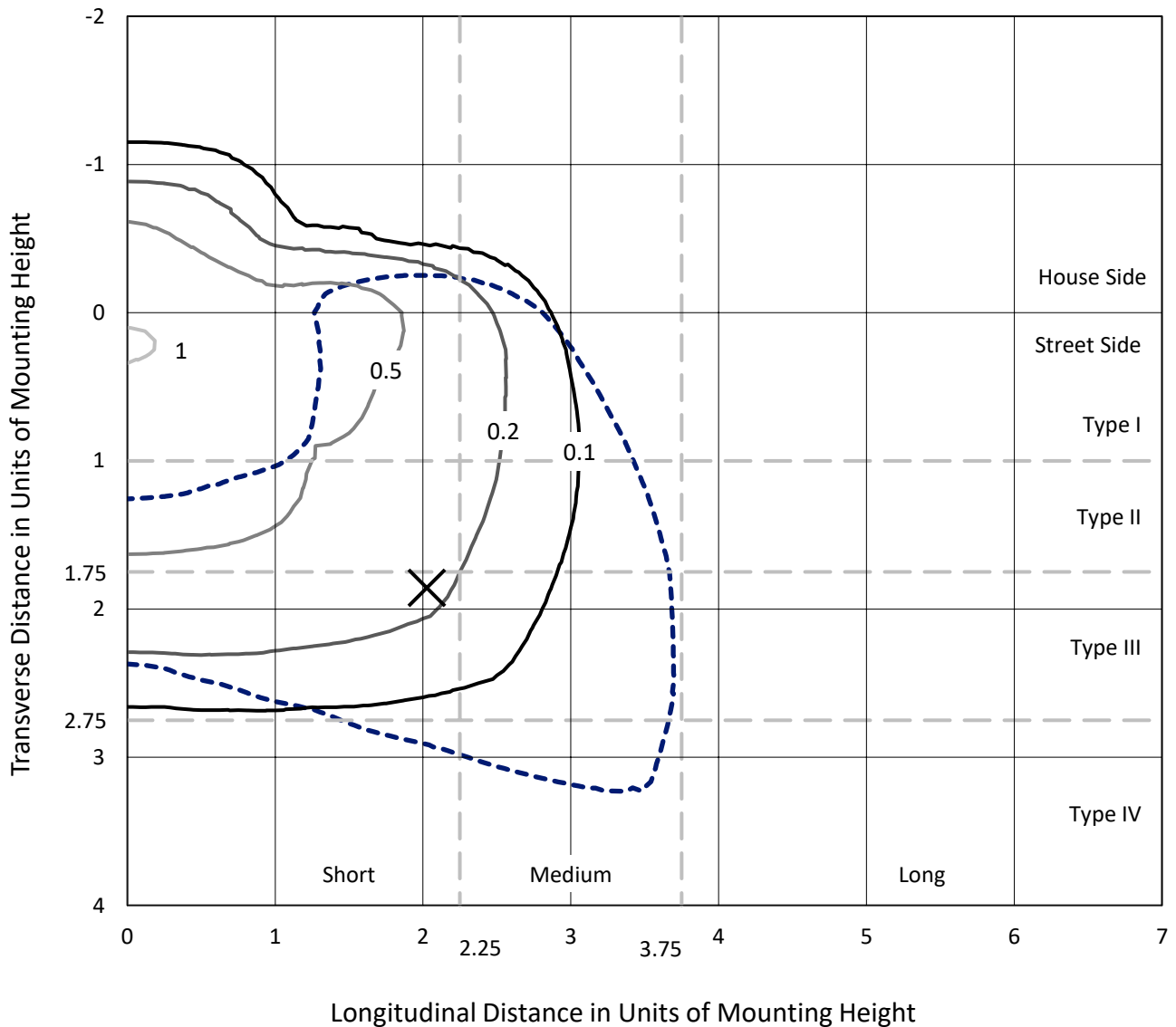
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

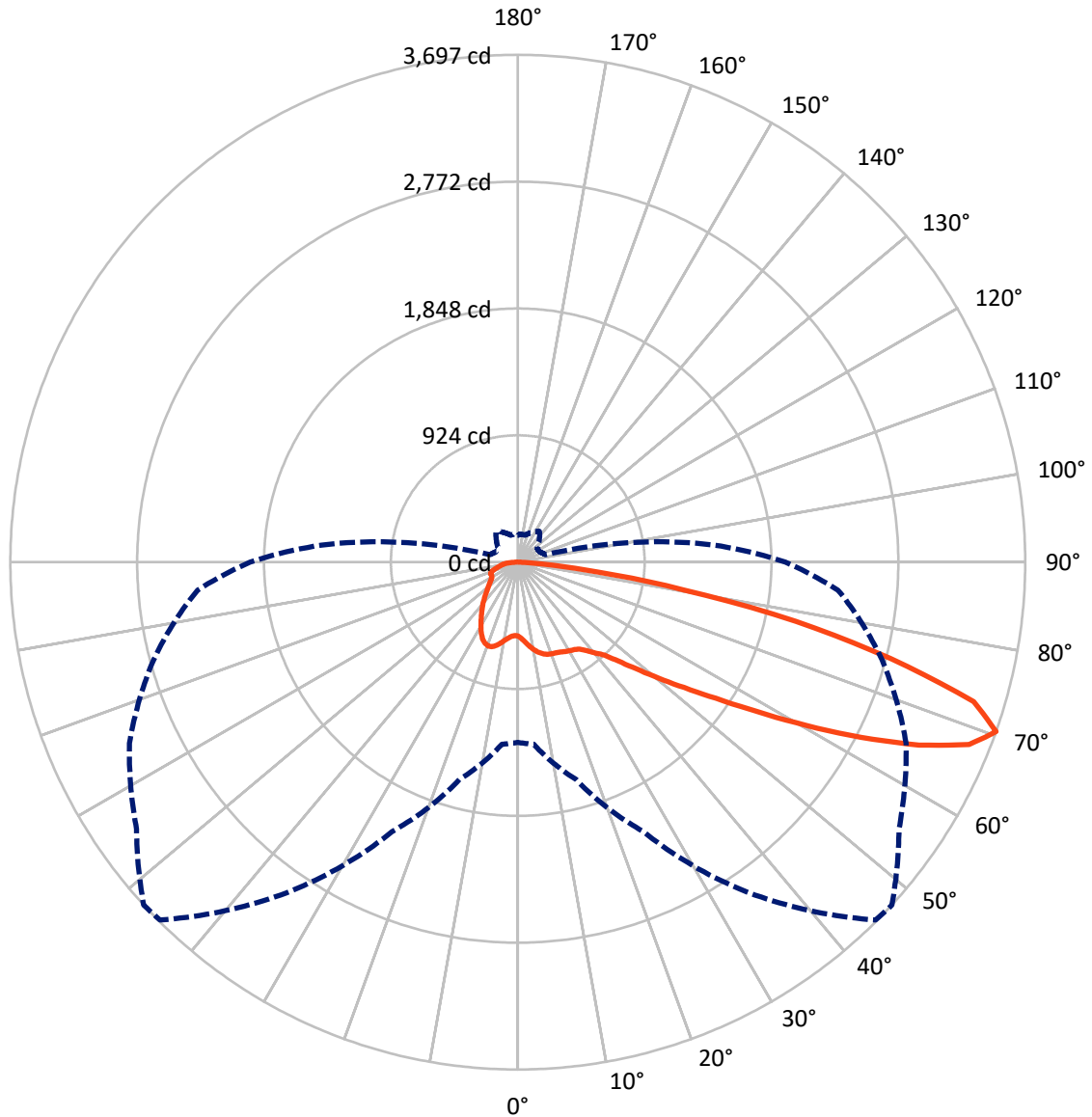
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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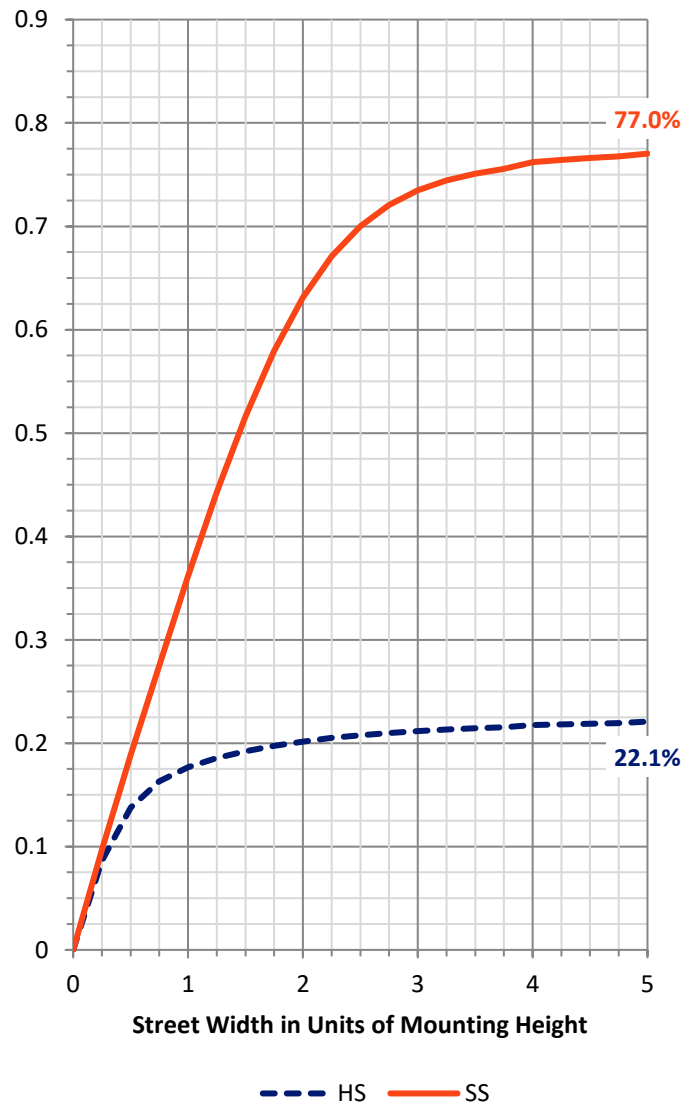
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1215.2	0.0	1215.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	4151.8	0.0	4151.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	5367.0	0.0	5367.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.5	1.0
10°-20°	185.7	3.5
20°-30°	308.8	5.8
30°-40°	437.6	8.2
40°-50°	646.0	12.0
50°-60°	1118.9	20.8
60°-70°	1580.5	29.4
70°-80°	908.6	16.9
80°-90°	125.4	2.3
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°	5367.0	100.0
0°-180°	5367.0	100.0



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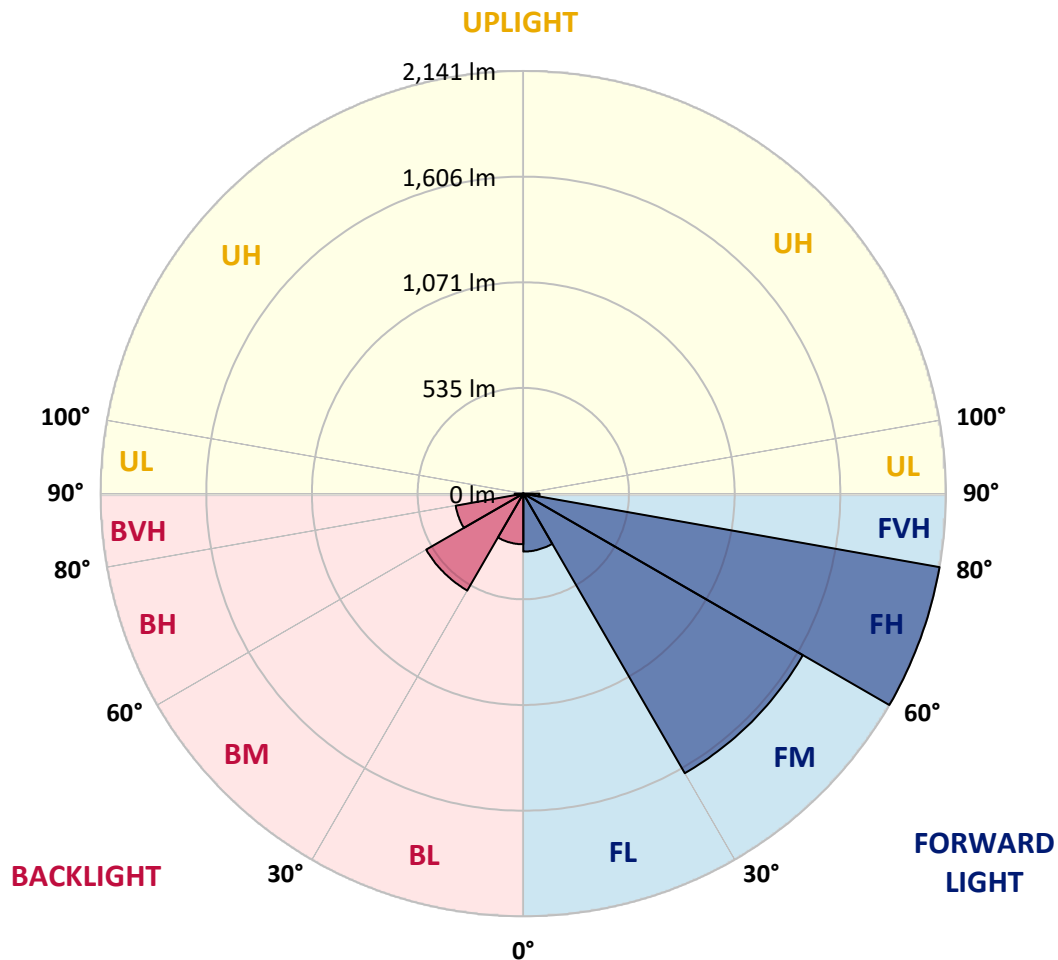
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	293.5	5.5			
FM (30°-60°)	1635.2	30.5			
FH (60°-80°)	2141.2	39.9			G2/5000
FVH (80°-90°)	81.9	1.5			G1/100
BL (0°-30°)	256.5	4.8	B1/500		
BM (30°-60°)	567.4	10.6	B1/1000		
BH (60°-80°)	347.9	6.5	B1/500		G1/500
BVH (80°-90°)	43.5	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8
2.5°	573.5	571.5	571.2	566.9	564.6	560.3	558.6	554.6	549.7	544.8	540.2
5°	618.6	618.6	616.6	610.6	601.1	591.3	587.0	579.3	565.5	554.3	544.8
7.5°	664.9	665.4	661.4	652.5	639.0	623.2	619.2	607.7	588.2	571.8	557.7
10°	704.8	704.8	699.3	687.3	670.3	653.1	649.1	636.1	614.3	593.9	575.5
12.5°	735.2	735.2	728.0	712.2	693.9	678.4	673.8	661.4	641.0	618.3	595.1
15°	755.0	753.6	745.6	727.8	710.0	696.5	693.3	683.0	664.3	641.3	615.2
17.5°	755.9	755.3	747.6	732.6	717.1	707.9	705.9	699.0	684.4	662.6	635.0
20°	739.2	740.4	735.2	724.6	717.1	713.1	712.2	710.0	699.6	679.2	651.7
22.5°	721.4	723.5	718.6	712.8	712.2	716.3	716.8	717.4	710.8	691.0	665.7
25°	717.1	718.6	713.7	708.5	711.7	722.3	724.6	726.9	721.7	705.1	682.4
27.5°	739.0	737.8	728.3	717.1	719.1	733.5	736.7	739.2	736.7	722.3	703.1
30°	800.7	797.0	778.0	745.3	734.9	745.0	748.1	755.3	755.3	744.7	725.5
32.5°	904.1	896.9	862.2	797.8	761.9	755.9	759.1	770.8	776.9	768.5	747.6
35°	1029.6	1022.1	972.5	886.0	811.3	777.7	776.9	790.1	806.2	787.5	760.2
37.5°	1155.7	1147.9	1088.2	991.1	883.4	823.7	818.5	823.1	830.0	795.8	777.7
40°	1281.8	1272.6	1220.3	1108.6	971.6	884.6	871.1	850.4	847.5	823.1	811.6
42.5°	1406.7	1398.4	1371.9	1240.4	1077.3	944.0	923.3	887.7	898.6	884.0	873.9
45°	1532.8	1533.3	1505.2	1388.3	1204.8	1053.7	1025.9	970.2	996.0	990.5	996.3
47.5°	1644.5	1643.1	1633.0	1531.9	1363.0	1195.0	1159.1	1094.5	1138.7	1158.8	1202.8
50°	1752.8	1751.9	1752.5	1694.8	1546.8	1363.0	1323.4	1255.6	1355.3	1425.1	1503.8
52.5°	1907.9	1912.7	1878.0	1862.8	1770.3	1561.5	1517.8	1447.8	1611.2	1721.2	1874.8
55°	2063.5	2059.5	2032.2	2048.0	2004.1	1796.4	1750.8	1695.0	1896.1	2016.4	2247.3
57.5°	2155.1	2156.6	2184.4	2261.7	2292.7	2089.4	2048.0	2004.9	2216.3	2301.6	2578.7
60°	2237.6	2244.2	2324.3	2470.2	2554.3	2449.2	2412.5	2370.5	2510.1	2544.0	2866.5
62.5°	2263.4	2283.8	2423.7	2641.9	2809.4	2855.3	2809.7	2717.2	2789.8	2776.6	3061.5
65°	2134.5	2162.3	2413.0	2706.3	3037.1	3240.7	3211.7	3040.0	3028.2	2948.7	3093.4
67.5°	1795.0	1822.8	2144.8	2571.3	3131.3	3574.5	3545.5	3275.5	3173.0	2964.7	2852.2
70°	1313.4	1330.9	1638.7	2164.9	2942.0	3686.5	3696.5	3390.4	3121.3	2746.2	2341.8
72.5°	756.8	795.5	1011.2	1523.0	2403.6	3403.3	3473.1	3151.4	2794.4	2291.0	1637.3
75°	325.4	326.3	467.6	840.1	1627.8	2735.6	2803.0	2612.3	2194.5	1584.2	874.2
77.5°	154.8	157.7	205.6	375.1	896.1	1890.0	2072.1	1845.5	1403.5	761.1	330.3
80°	100.5	102.5	125.8	186.1	439.4	1095.9	1222.9	1064.6	619.2	272.0	142.4
82.5°	60.9	61.5	84.1	113.7	241.8	496.3	585.0	462.1	264.2	162.8	83.9
85°	37.0	37.3	51.1	70.4	146.8	171.5	176.1	174.6	155.1	106.6	44.8
87.5°	17.8	18.4	26.4	33.3	57.7	53.1	50.3	58.3	73.2	57.4	19.2
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°	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8
2.5°	538.2	537.3	535.3	534.5	533.9	534.2	533.9	533.9	534.2	534.2	534.2
5°	540.8	539.4	536.2	536.2	537.9	541.9	545.7	548.5	551.7	551.4	551.4
7.5°	552.0	549.4	545.7	546.8	551.1	557.5	564.1	570.4	576.7	577.3	577.0
10°	568.4	565.8	561.8	563.2	570.1	579.6	587.9	597.1	604.0	606.0	605.4
12.5°	587.0	581.9	578.4	582.4	593.3	606.0	614.0	620.9	625.8	628.7	627.5
15°	606.0	601.1	597.1	605.4	618.6	630.4	634.4	635.6	636.4	639.3	638.7
17.5°	624.4	617.8	616.3	627.2	639.9	645.0	642.7	637.9	634.1	636.4	636.1
20°	640.7	635.6	635.0	645.9	650.8	645.9	636.1	627.5	620.9	621.5	621.2
22.5°	656.2	652.2	652.8	657.4	649.6	633.0	616.9	605.1	597.9	599.4	600.2
25°	673.5	669.5	670.9	663.4	637.9	608.9	585.6	575.5	572.7	575.5	577.6
27.5°	695.9	693.3	692.4	663.7	616.9	573.2	546.8	543.1	545.7	552.0	555.2
30°	720.0	720.0	715.4	658.8	588.2	530.5	507.5	508.1	517.0	525.9	529.0
32.5°	743.3	748.1	733.8	645.6	551.1	488.8	471.3	471.9	479.6	490.5	493.4
35°	762.5	776.6	749.6	621.5	507.5	453.8	440.6	432.8	433.1	441.4	443.7
37.5°	788.9	815.1	758.8	585.6	461.0	423.9	409.0	395.5	386.6	383.1	383.1
40°	834.9	873.4	761.1	532.5	417.0	395.5	374.2	358.1	340.9	325.4	322.5
42.5°	912.7	961.2	756.5	471.3	377.4	364.2	343.5	323.7	299.8	278.0	276.3
45°	1050.6	1075.6	744.1	407.8	342.1	334.0	313.9	292.4	267.1	247.6	246.1
47.5°	1271.4	1236.1	727.8	351.5	309.9	307.6	292.1	267.1	241.8	228.3	226.9
50°	1593.9	1488.8	725.5	310.7	284.0	285.2	272.6	249.6	227.5	216.3	214.5
52.5°	1982.2	1794.1	740.7	282.0	261.3	265.7	259.3	238.1	218.6	209.1	207.4
55°	2359.0	2068.7	749.9	259.6	240.1	248.1	249.0	231.2	213.4	203.9	202.8
57.5°	2664.9	2275.5	709.1	239.2	221.7	234.1	240.4	227.2	210.8	203.6	202.5
60°	2877.7	2373.1	593.1	221.1	208.2	222.9	237.2	227.5	217.1	218.0	218.6
62.5°	2945.5	2329.7	444.9	207.6	199.0	219.1	242.4	239.2	228.6	235.2	236.4
65°	2833.2	2150.5	322.5	197.0	191.0	221.7	257.9	247.9	224.6	229.5	229.5
67.5°	2457.3	1852.7	251.0	187.3	181.8	226.6	273.4	247.0	215.1	220.9	215.7
70°	1949.2	1433.1	209.1	176.3	172.0	219.4	274.8	238.1	203.9	205.1	195.3
72.5°	1293.5	942.3	179.8	166.0	157.1	197.3	263.1	226.6	193.0	186.4	176.6
75°	633.8	469.9	156.8	153.1	137.6	171.7	247.0	215.7	181.2	170.9	165.4
77.5°	245.6	199.9	133.8	136.7	119.8	151.4	225.7	200.2	165.7	151.6	147.3
80°	119.2	113.4	109.7	114.0	98.5	129.0	206.2	186.7	151.4	135.8	129.5
82.5°	74.1	70.1	84.1	88.7	75.8	117.8	195.6	175.2	133.3	112.6	107.4
85°	37.6	40.2	56.3	60.6	54.3	93.6	161.1	131.5	96.2	79.8	80.4
87.5°	14.4	19.2	29.6	31.9	29.0	49.4	88.7	76.7	61.7	41.9	38.8
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)