

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: P522623

Luminaire Tested: **GALN-SA1B-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522623
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-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4819 lumens
Efficiency: N/A
Efficacy: 109.5 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

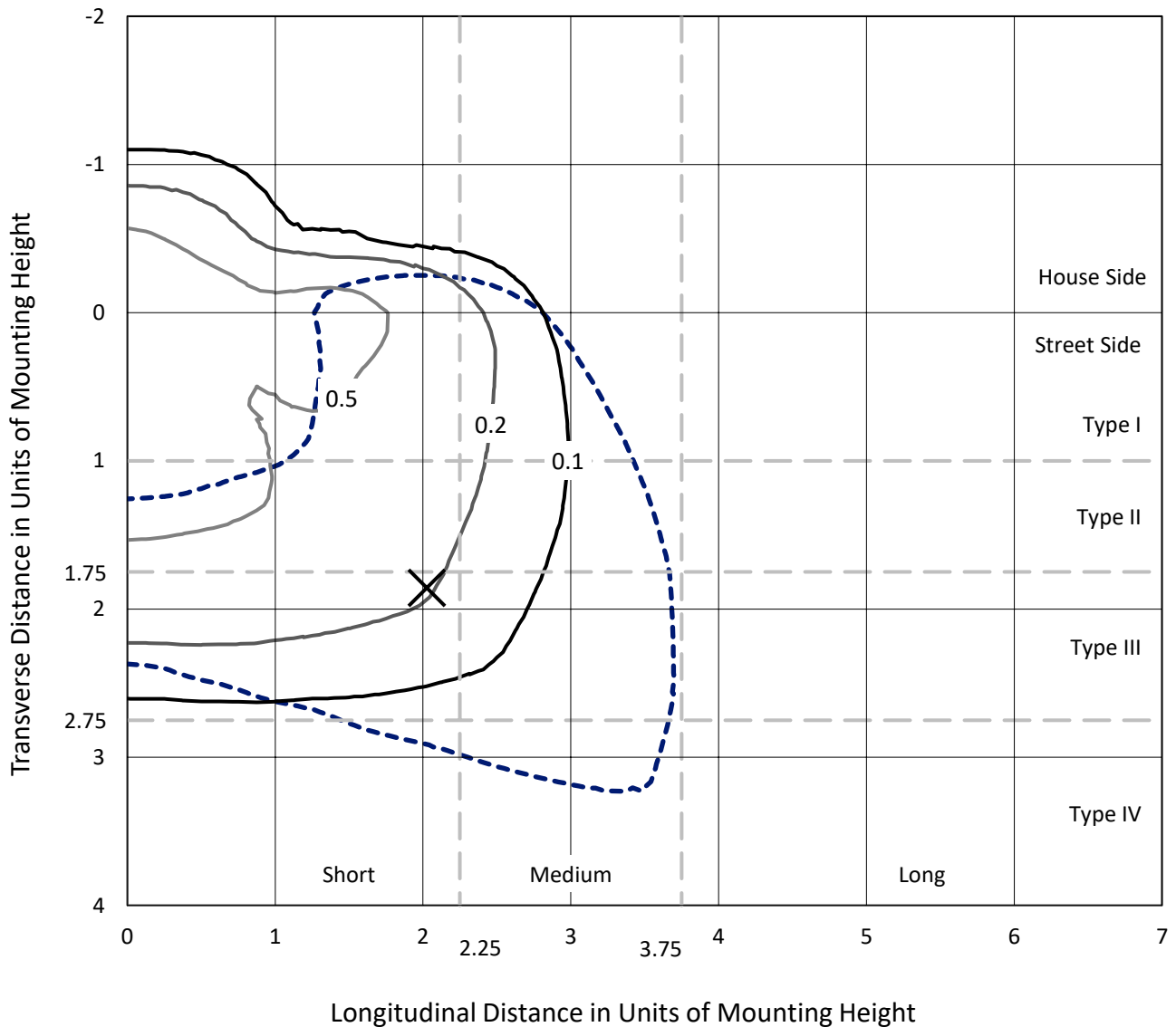
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

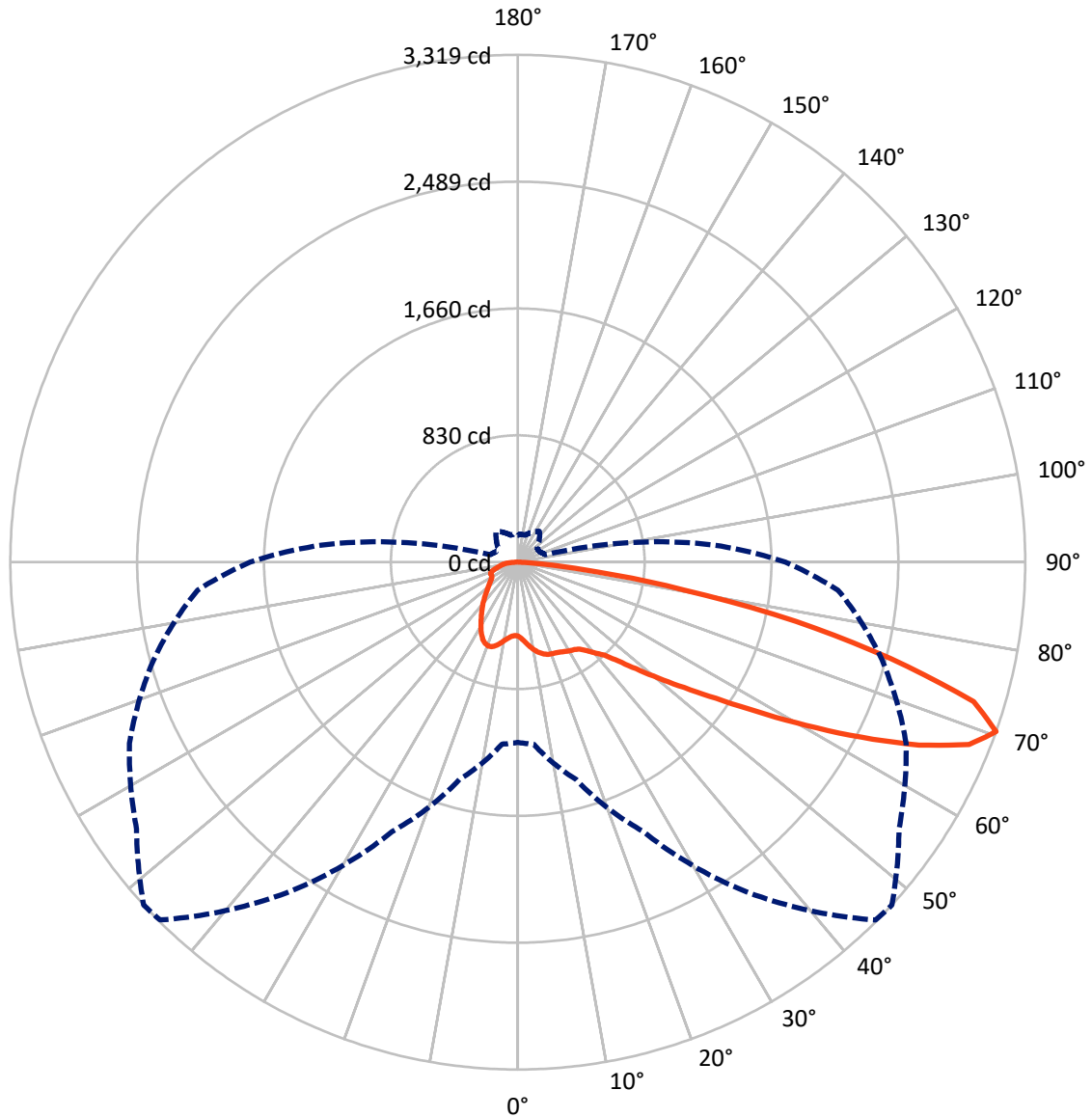
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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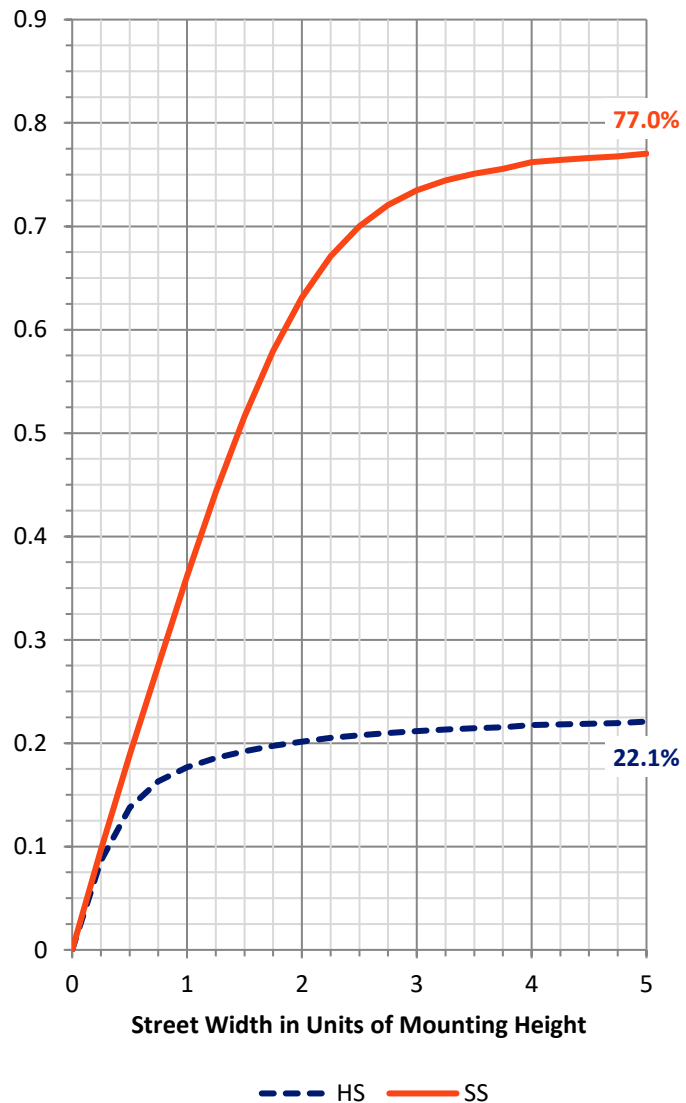
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1091.1	0.0	1091.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3727.9	0.0	3727.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	4819.0	0.0	4819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	1.0
10°-20°	166.7	3.5
20°-30°	277.2	5.8
30°-40°	392.9	8.2
40°-50°	580.1	12.0
50°-60°	1004.7	20.8
60°-70°	1419.1	29.4
70°-80°	815.8	16.9
80°-90°	112.6	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°	4819.0	100.0
0°-180°	4819.0	100.0

Coefficient of Utilization



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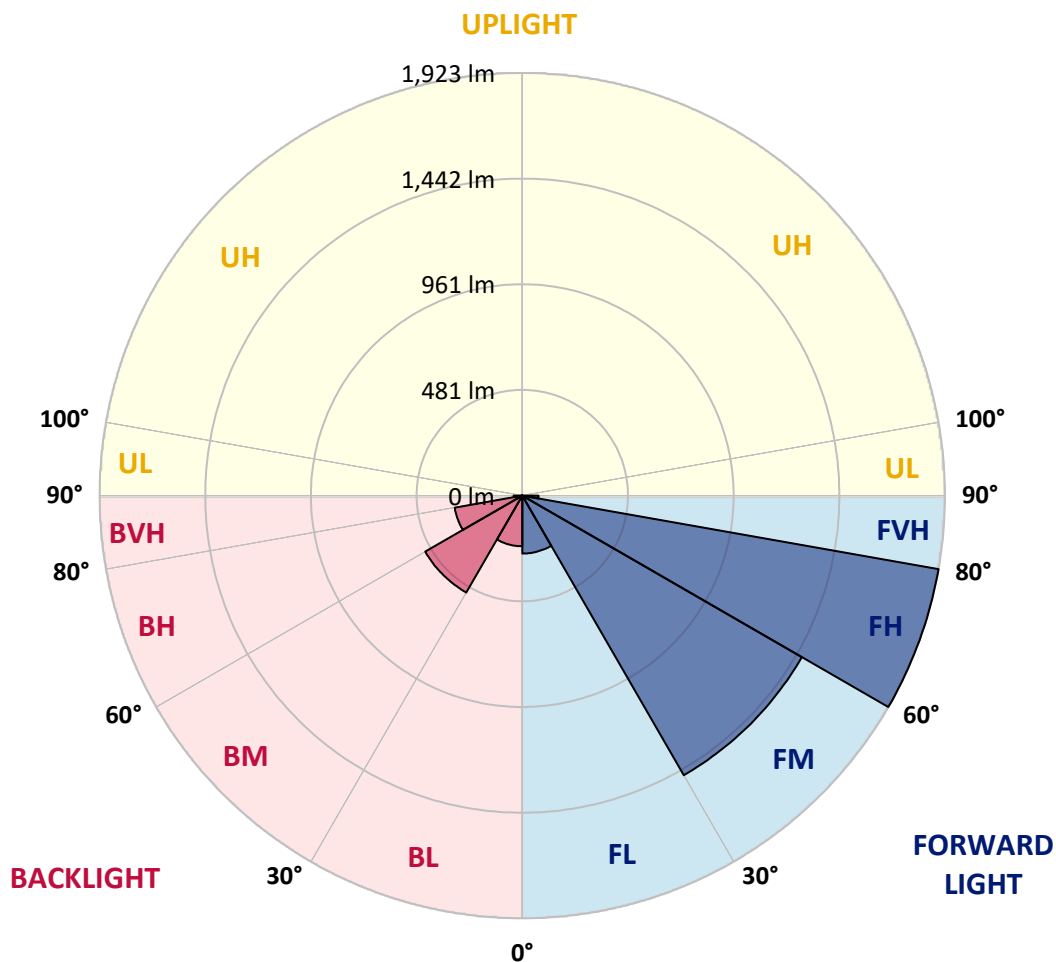
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	263.5	5.5			
FM (30°-60°)	1468.3	30.5			
FH (60°-80°)	1922.6	39.9			G2/5000
FVH (80°-90°)	73.5	1.5			G1/100
BL (0°-30°)	230.3	4.8	B1/500		
BM (30°-60°)	509.4	10.6	B1/1000		
BH (60°-80°)	312.4	6.5	B1/500		G1/500
BVH (80°-90°)	39.0	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°	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8
2.5°	515.0	513.2	512.9	509.0	507.0	503.1	501.6	498.0	493.6	489.2	485.1
5°	555.5	555.5	553.7	548.2	539.7	531.0	527.1	520.1	507.8	497.7	489.2
7.5°	597.0	597.5	593.9	585.9	573.8	559.6	556.0	545.7	528.1	513.4	500.8
10°	632.8	632.8	627.9	617.1	601.9	586.4	582.8	571.2	551.6	533.3	516.8
12.5°	660.2	660.2	653.7	639.5	623.0	609.1	605.0	593.9	575.6	555.2	534.3
15°	677.9	676.7	669.4	653.5	637.5	625.3	622.5	613.2	596.5	575.8	552.4
17.5°	678.7	678.2	671.2	657.8	643.9	635.7	633.9	627.7	614.5	594.9	570.2
20°	663.8	664.8	660.2	650.6	643.9	640.3	639.5	637.5	628.2	609.9	585.1
22.5°	647.8	649.6	645.2	640.0	639.5	643.1	643.7	644.2	638.2	620.4	597.7
25°	643.9	645.2	640.8	636.2	639.0	648.6	650.6	652.7	648.0	633.1	612.7
27.5°	663.5	662.5	654.0	643.9	645.7	658.6	661.4	663.8	661.4	648.6	631.3
30°	718.9	715.6	698.6	669.2	659.9	668.9	671.8	678.2	678.2	668.7	651.4
32.5°	811.8	805.3	774.1	716.4	684.1	678.7	681.6	692.1	697.5	690.1	671.2
35°	924.5	917.8	873.2	795.5	728.5	698.3	697.5	709.4	723.8	707.1	682.6
37.5°	1037.7	1030.7	977.1	889.9	793.2	739.6	734.9	739.1	745.3	714.6	698.3
40°	1150.9	1142.6	1095.7	995.4	872.4	794.2	782.1	763.6	761.0	739.1	728.7
42.5°	1263.1	1255.6	1231.9	1113.8	967.3	847.6	829.1	797.1	806.9	793.7	784.7
45°	1376.3	1376.8	1351.5	1246.6	1081.8	946.1	921.1	871.1	894.3	889.4	894.6
47.5°	1476.6	1475.3	1466.3	1375.5	1223.9	1073.0	1040.8	982.8	1022.5	1040.5	1080.0
50°	1573.8	1573.0	1573.5	1521.7	1388.9	1223.9	1188.3	1127.4	1216.9	1279.6	1350.2
52.5°	1713.0	1717.4	1686.2	1672.6	1589.5	1402.1	1362.9	1299.9	1446.7	1545.4	1683.4
55°	1852.8	1849.2	1824.7	1838.9	1799.4	1613.0	1572.0	1522.0	1702.5	1810.5	2017.9
57.5°	1935.1	1936.4	1961.4	2030.7	2058.6	1876.0	1838.9	1800.2	1990.0	2066.6	2315.4
60°	2009.1	2015.0	2087.0	2218.0	2293.5	2199.1	2166.1	2128.5	2253.8	2284.2	2573.8
62.5°	2032.3	2050.6	2176.2	2372.2	2522.5	2563.8	2522.8	2439.7	2505.0	2493.1	2748.9
65°	1916.5	1941.5	2166.6	2429.9	2727.0	2909.8	2883.8	2729.6	2719.0	2647.6	2777.5
67.5°	1611.7	1636.7	1925.8	2308.7	2811.6	3209.5	3183.4	2941.0	2849.0	2662.0	2560.9
70°	1179.3	1195.0	1471.4	1943.8	2641.7	3310.1	3319.1	3044.2	2802.6	2465.8	2102.7
72.5°	679.5	714.3	908.0	1367.5	2158.1	3055.8	3118.5	2829.6	2509.1	2057.1	1470.1
75°	292.2	292.9	419.8	754.3	1461.6	2456.2	2516.8	2345.6	1970.4	1422.4	785.0
77.5°	139.0	141.6	184.6	336.8	804.6	1697.1	1860.6	1657.1	1260.2	683.4	296.6
80°	90.3	92.1	112.9	167.1	394.5	984.0	1098.0	955.9	556.0	244.2	127.9
82.5°	54.7	55.2	75.6	102.1	217.1	445.6	525.3	414.9	237.2	146.2	75.3
85°	33.3	33.5	45.9	63.2	131.8	154.0	158.1	156.8	139.3	95.7	40.2
87.5°	16.0	16.5	23.7	29.9	51.8	47.7	45.1	52.3	65.8	51.6	17.3
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°	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8
2.5°	483.3	482.5	480.7	479.9	479.4	479.6	479.4	479.4	479.6	479.6	479.6
5°	485.6	484.3	481.4	481.4	483.0	486.6	490.0	492.5	495.4	495.1	495.1
7.5°	495.6	493.3	490.0	491.0	494.9	500.5	506.5	512.1	517.8	518.3	518.1
10°	510.3	508.0	504.4	505.7	511.9	520.4	527.9	536.1	542.3	544.1	543.6
12.5°	527.1	522.5	519.4	523.0	532.8	544.1	551.3	557.5	561.9	564.5	563.5
15°	544.1	539.7	536.1	543.6	555.5	566.0	569.6	570.7	571.4	574.0	573.5
17.5°	560.6	554.7	553.4	563.2	574.5	579.2	577.1	572.7	569.4	571.4	571.2
20°	575.3	570.7	570.2	580.0	584.3	580.0	571.2	563.5	557.5	558.0	557.8
22.5°	589.2	585.6	586.1	590.3	583.3	568.4	553.9	543.3	536.9	538.2	539.0
25°	604.7	601.1	602.4	595.7	572.7	546.7	525.8	516.8	514.2	516.8	518.6
27.5°	624.8	622.5	621.7	595.9	553.9	514.7	491.0	487.6	490.0	495.6	498.5
30°	646.5	646.5	642.4	591.6	528.1	476.3	455.7	456.2	464.2	472.2	475.0
32.5°	667.4	671.8	658.9	579.7	494.9	438.9	423.2	423.7	430.6	440.4	443.0
35°	684.7	697.3	673.0	558.0	455.7	407.4	395.6	388.6	388.9	396.4	398.4
37.5°	708.4	731.8	681.3	525.8	413.9	380.6	367.2	355.1	347.1	344.0	344.0
40°	749.6	784.2	683.4	478.1	374.4	355.1	336.0	321.6	306.1	292.2	289.6
42.5°	819.5	863.1	679.2	423.2	338.8	327.0	308.4	290.6	269.2	249.6	248.1
45°	943.3	965.7	668.1	366.2	307.1	299.9	281.9	262.5	239.8	222.3	221.0
47.5°	1141.6	1109.9	653.5	315.6	278.2	276.2	262.3	239.8	217.1	205.0	203.7
50°	1431.2	1336.8	651.4	279.0	255.0	256.1	244.7	224.1	204.2	194.2	192.6
52.5°	1779.8	1610.9	665.1	253.2	234.7	238.5	232.9	213.8	196.2	187.7	186.2
55°	2118.2	1857.5	673.3	233.1	215.6	222.8	223.6	207.6	191.6	183.1	182.1
57.5°	2392.8	2043.1	636.7	214.8	199.1	210.2	215.8	204.0	189.3	182.8	181.8
60°	2583.9	2130.8	532.5	198.6	187.0	200.1	213.0	204.2	195.0	195.7	196.2
62.5°	2644.7	2091.9	399.4	186.4	178.7	196.8	217.6	214.8	205.3	211.2	212.2
65°	2543.9	1931.0	289.6	176.9	171.5	199.1	231.6	222.5	201.7	206.0	206.0
67.5°	2206.4	1663.5	225.4	168.1	163.2	203.5	245.5	221.8	193.1	198.3	193.7
70°	1750.2	1286.8	187.7	158.3	154.5	197.0	246.8	213.8	183.1	184.1	175.4
72.5°	1161.5	846.1	161.4	149.1	141.1	177.2	236.2	203.5	173.3	167.4	158.6
75°	569.1	421.9	140.8	137.4	123.5	154.2	221.8	193.7	162.7	153.4	148.5
77.5°	220.5	179.5	120.2	122.7	107.5	135.9	202.7	179.7	148.8	136.2	132.3
80°	107.0	101.9	98.5	102.4	88.5	115.8	185.2	167.6	135.9	122.0	116.3
82.5°	66.5	62.9	75.6	79.7	68.1	105.7	175.6	157.3	119.7	101.1	96.4
85°	33.8	36.1	50.5	54.4	48.7	84.1	144.7	118.1	86.4	71.7	72.2
87.5°	12.9	17.3	26.6	28.6	26.0	44.4	79.7	68.9	55.4	37.6	34.8
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)