

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: P526188

Luminaire Tested: **GALN-SA1A-760-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526188  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-760-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4066 lumens  
Efficiency: N/A  
Efficacy: 123.2 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

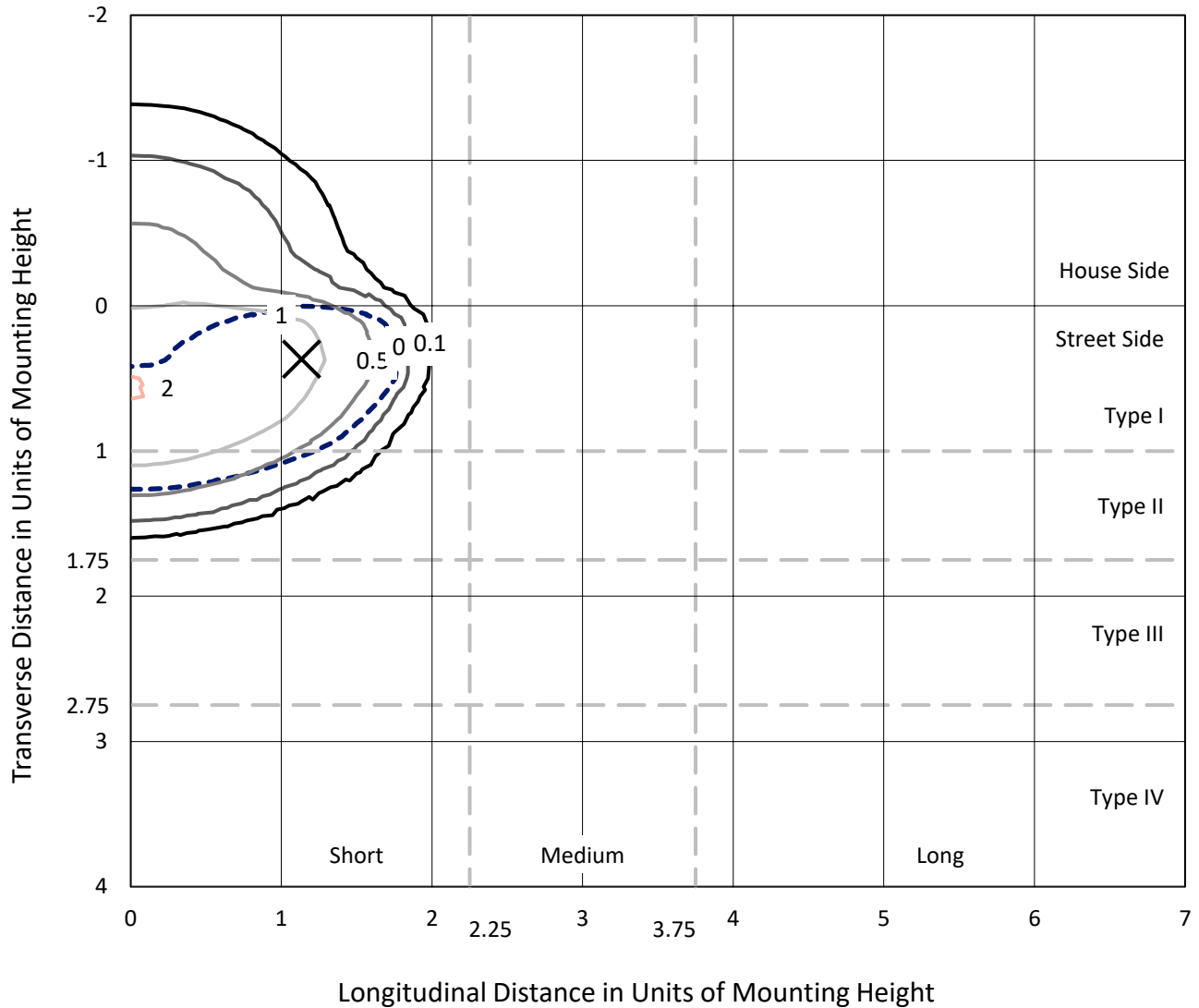
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

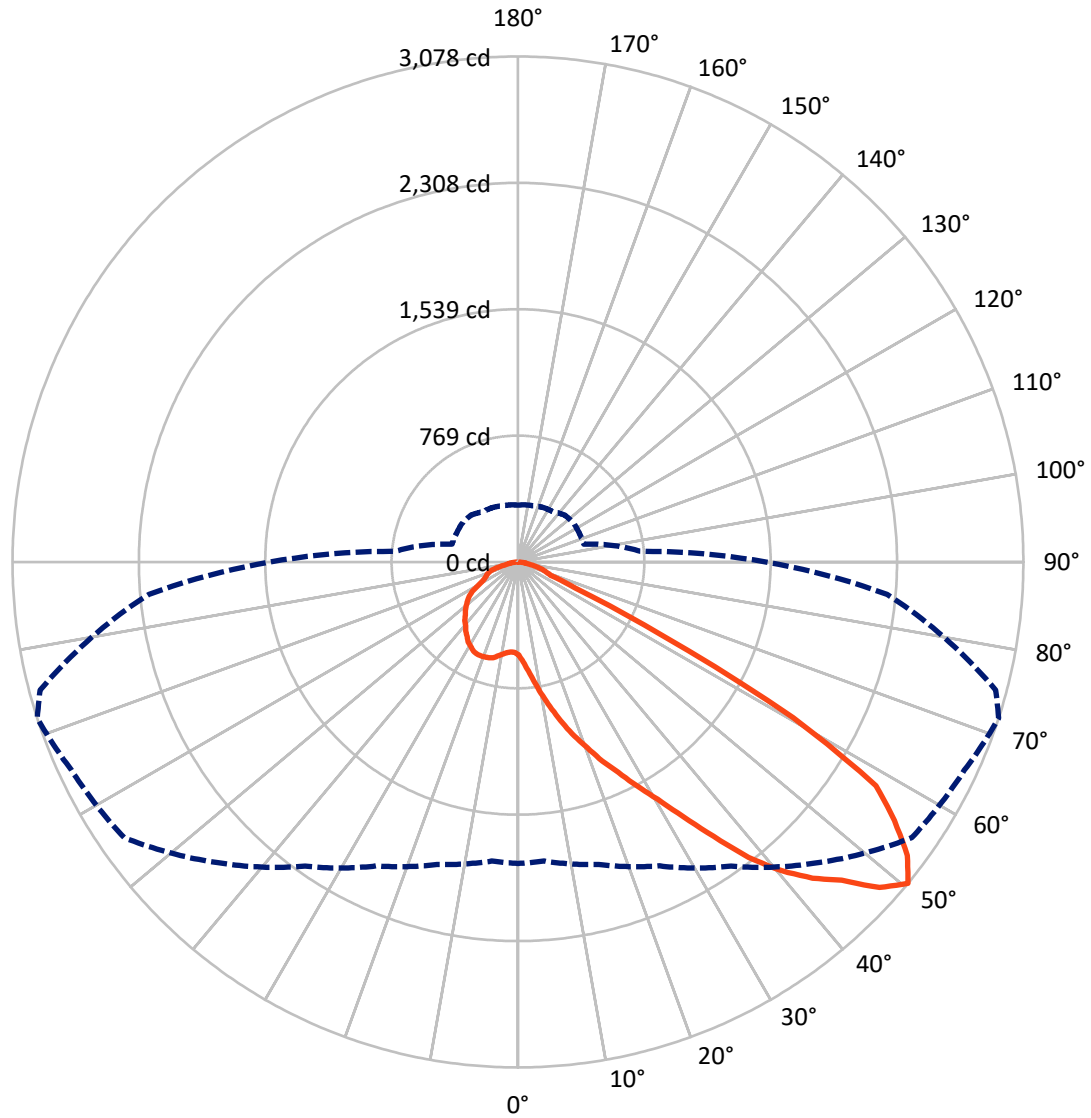
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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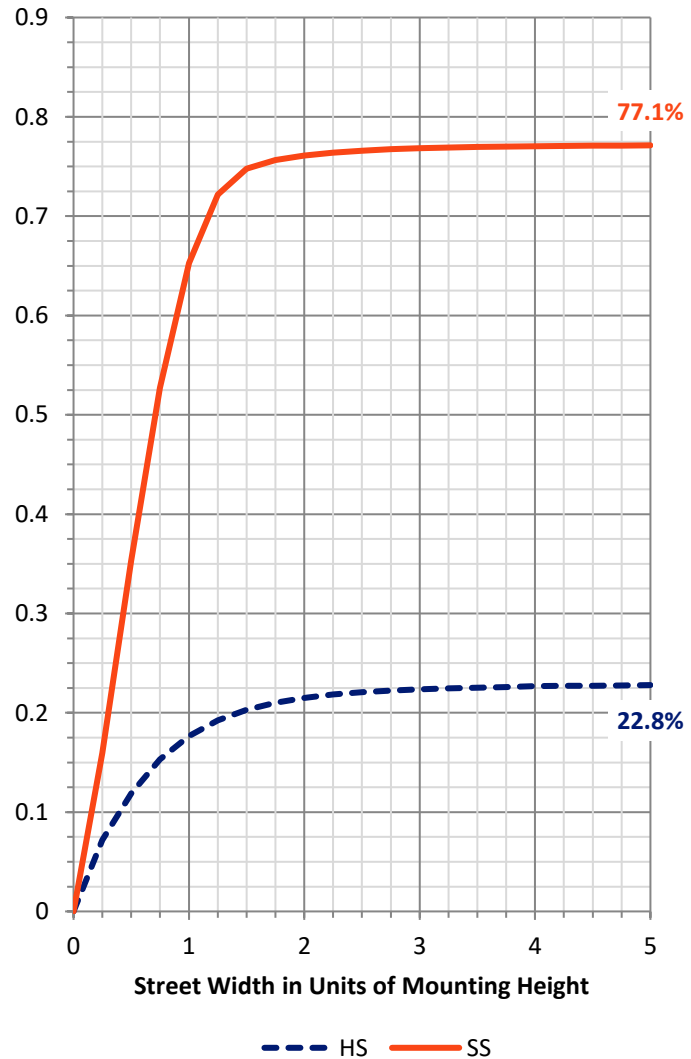
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	931.5	0.0	931.5
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	3134.5	0.0	3134.5
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	4066.0	0.0	4066.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.6	1.6
10°-20°	248.9	6.1
20°-30°	482.6	11.9
30°-40°	799.5	19.7
40°-50°	1118.6	27.5
50°-60°	943.7	23.2
60°-70°	287.6	7.1
70°-80°	100.9	2.5
80°-90°	17.5	0.4
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°	4066.0	100.0
0°-180°	4066.0	100.0

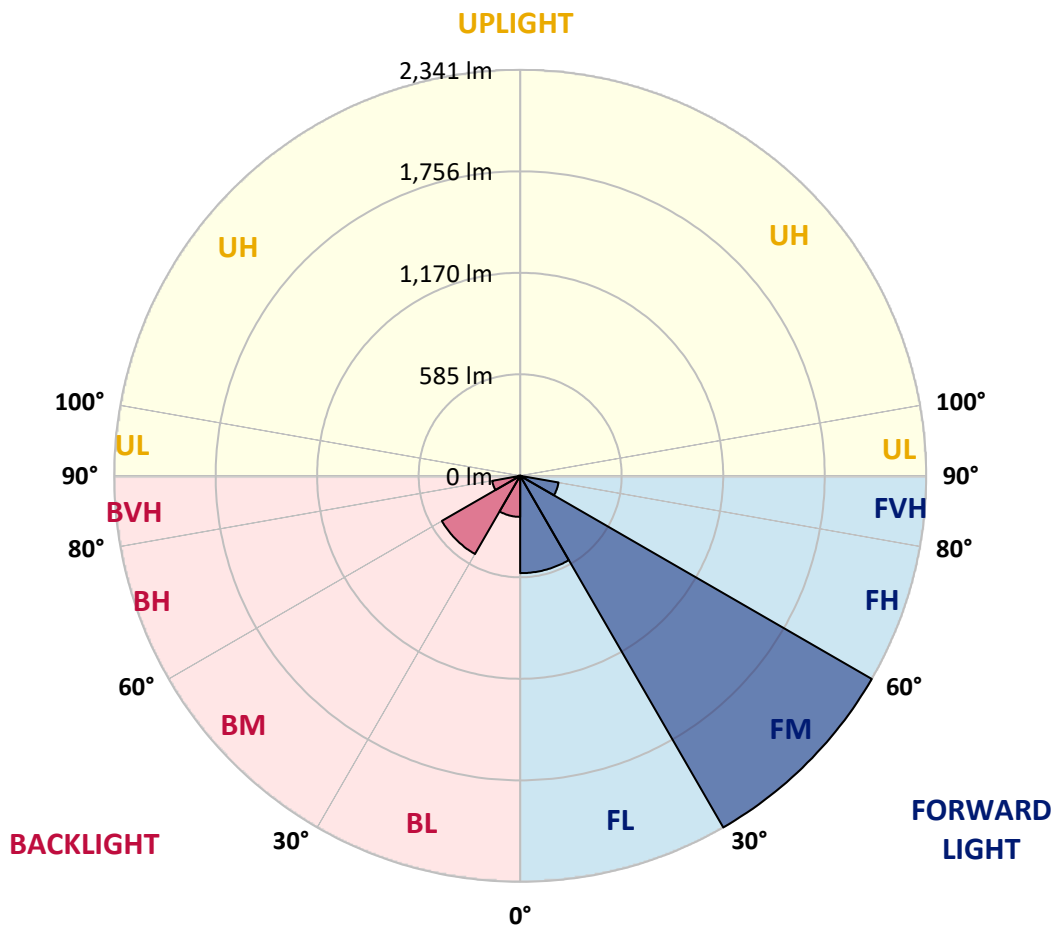


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	561.3	13.8			
FM (30°-60°)	2340.9	57.6			
FH (60°-80°)	224.4	5.5			G0/660
FVH (80°-90°)	7.9	0.2			G0/10
BL (0°-30°)	236.8	5.8	B1/500		
BM (30°-60°)	520.9	12.8	B1/1000		
BH (60°-80°)	164.1	4.0	B1/500		G1/500
BVH (80°-90°)	9.7	0.2			G0/10
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°	72°	75°	85°
0°	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0
2.5°	728.0	723.5	709.9	705.4	689.3	660.1	650.0	620.4	607.8	596.2	582.6
5°	920.7	899.6	898.1	872.4	835.2	813.6	749.2	705.9	666.1	646.0	608.8
7.5°	1043.5	1044.0	1044.0	1022.9	993.2	938.3	880.5	802.5	742.6	712.9	649.5
10°	1160.2	1150.2	1144.6	1142.6	1122.5	1069.2	1007.3	910.7	828.7	793.9	680.2
12.5°	1242.7	1234.2	1246.8	1240.2	1225.6	1190.9	1132.5	1022.4	919.7	872.9	729.5
15°	1282.0	1288.0	1298.1	1316.2	1309.6	1296.6	1232.2	1137.1	1017.8	965.0	773.3
17.5°	1342.4	1325.7	1337.8	1360.5	1378.6	1372.5	1335.8	1220.1	1114.9	1050.0	832.2
20°	1384.6	1375.1	1381.1	1407.3	1420.8	1455.1	1435.9	1328.8	1208.0	1139.6	901.6
22.5°	1505.4	1491.3	1471.7	1475.7	1480.7	1504.9	1509.4	1448.0	1316.2	1243.7	967.5
25°	1654.3	1641.2	1618.1	1594.4	1579.8	1575.3	1590.9	1541.6	1419.8	1344.9	1038.5
27.5°	1818.3	1796.2	1781.6	1732.8	1693.5	1687.5	1680.0	1653.3	1542.6	1461.6	1118.5
30°	1977.8	1960.2	1940.6	1862.6	1821.8	1815.3	1778.1	1785.6	1675.9	1585.9	1209.0
32.5°	2098.6	2100.1	2055.3	1996.4	1958.2	1923.5	1909.9	1931.5	1847.0	1774.5	1310.2
35°	2196.2	2200.7	2157.9	2104.6	2063.3	2087.5	2081.5	2091.5	2051.3	1962.7	1427.9
37.5°	2291.3	2268.6	2222.8	2197.2	2175.5	2215.3	2266.6	2275.2	2282.7	2178.6	1564.7
40°	2306.9	2308.9	2282.2	2300.3	2273.1	2333.0	2452.3	2441.2	2471.9	2380.8	1713.2
42.5°	2284.7	2289.2	2299.8	2325.5	2390.9	2462.8	2639.9	2594.6	2631.9	2550.9	1857.6
45°	2248.5	2229.9	2243.0	2340.6	2453.8	2613.8	2811.5	2776.3	2764.2	2696.3	2029.6
47.5°	2075.4	2094.5	2135.3	2255.5	2425.6	2639.9	2933.3	2925.2	2961.4	2913.6	2186.1
50°	1835.4	1827.9	1906.4	2041.7	2261.1	2588.6	2926.7	2999.7	3077.6	3011.2	2256.0
52.5°	1374.6	1414.8	1482.2	1650.3	1963.2	2308.9	2783.8	2905.6	2969.0	2954.9	2199.7
55°	868.9	881.0	921.7	1121.5	1403.2	1853.0	2386.3	2668.6	2781.8	2834.6	2147.9
57.5°	422.1	399.5	449.3	609.8	810.5	1246.3	1840.5	2324.5	2570.5	2666.1	2035.2
60°	220.4	228.9	248.5	305.9	419.1	647.0	1147.1	1549.1	1925.0	2071.9	1542.6
62.5°	182.6	185.7	198.7	227.4	278.7	372.3	585.6	755.2	981.6	1113.9	877.5
65°	155.0	156.5	170.6	189.7	222.4	262.1	301.4	315.5	381.9	391.9	311.9
67.5°	129.3	130.8	145.9	164.0	185.2	195.7	205.8	204.8	212.3	209.3	208.8
70°	99.6	101.1	116.7	135.8	146.4	140.4	171.6	178.6	181.6	184.1	188.2
72.5°	71.9	75.0	87.0	100.6	95.1	109.2	141.4	151.9	156.0	157.5	162.5
75°	52.3	53.3	56.4	52.3	60.4	76.0	99.6	112.7	117.7	119.2	126.8
77.5°	23.1	23.6	24.2	30.2	38.7	47.3	59.4	69.9	77.0	79.0	81.0
80°	12.1	12.6	15.6	20.6	27.7	34.7	43.3	49.3	53.8	54.3	56.4
82.5°	7.5	8.1	11.1	14.6	19.6	25.7	31.7	36.7	40.3	40.8	41.3
85°	3.5	4.5	6.5	9.1	13.1	16.6	17.1	14.6	15.6	16.1	15.1
87.5°	1.0	1.5	2.0	1.5	2.0	2.0	2.5	3.0	3.0	3.0	3.5
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°	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0
2.5°	575.1	570.6	552.9	546.4	529.3	532.3	523.3	522.8	520.7	520.2	519.7
5°	589.2	575.1	553.9	537.8	528.3	527.3	520.7	520.7	522.8	524.3	520.7
7.5°	612.3	596.2	560.5	545.4	536.8	535.3	530.8	527.3	531.8	530.3	526.3
10°	639.0	610.8	573.1	560.0	545.9	542.4	542.4	543.9	536.3	538.9	534.8
12.5°	668.7	630.9	589.2	574.1	557.5	555.5	554.4	543.4	547.4	545.4	535.3
15°	706.4	654.1	609.8	584.1	570.0	561.0	547.9	545.9	543.4	538.3	533.8
17.5°	747.1	679.2	619.4	587.2	566.0	559.5	549.4	538.9	531.3	532.3	528.8
20°	781.9	702.4	622.9	590.2	563.0	550.4	534.8	528.3	520.2	519.7	519.2
22.5°	823.1	733.6	627.9	582.1	553.9	540.9	530.3	518.7	513.2	506.1	509.7
25°	872.4	745.6	628.9	577.6	547.4	524.3	518.7	506.1	504.1	494.1	496.1
27.5°	908.2	752.2	620.9	563.5	532.3	514.7	504.6	495.6	492.1	484.5	482.5
30°	955.9	762.2	603.8	545.9	517.2	497.6	491.6	489.5	479.5	471.4	470.4
32.5°	1010.3	768.8	592.7	527.8	501.6	486.5	489.5	480.0	467.4	460.4	458.4
35°	1053.6	771.3	565.0	507.2	491.1	481.5	478.0	476.0	457.8	451.3	446.3
37.5°	1119.5	765.8	541.9	492.6	479.5	476.0	472.9	459.4	438.7	429.2	422.1
40°	1196.4	764.3	512.2	471.9	468.4	472.4	463.4	442.3	413.6	403.0	398.0
42.5°	1270.4	774.8	493.6	460.9	456.3	457.8	445.3	413.6	399.5	393.4	385.4
45°	1394.2	797.0	462.9	443.8	441.7	440.7	425.6	392.4	384.4	376.8	375.3
47.5°	1505.9	782.4	443.3	426.2	428.2	422.6	390.4	379.9	370.8	363.3	360.7
50°	1512.4	747.7	415.6	412.6	413.1	403.5	372.8	365.8	354.2	349.2	345.7
52.5°	1478.2	690.8	389.9	390.9	392.4	376.8	351.2	346.2	336.6	329.6	327.5
55°	1382.1	602.2	364.8	368.8	372.8	343.1	335.1	322.5	315.0	304.9	305.4
57.5°	1217.6	485.0	329.6	336.1	344.6	311.9	305.9	290.3	279.2	271.2	270.2
60°	816.1	345.1	276.7	279.2	298.4	285.3	284.8	269.2	254.1	247.0	243.0
62.5°	481.5	263.6	239.0	236.5	236.0	243.5	256.1	250.6	230.9	217.4	221.4
65°	252.1	227.9	222.4	213.8	208.8	206.8	216.3	218.9	205.8	191.2	190.2
67.5°	211.8	211.8	207.3	204.3	197.2	188.7	182.6	174.6	172.6	168.5	163.5
70°	192.7	197.7	196.2	189.2	183.1	173.6	158.0	144.9	132.3	127.8	130.8
72.5°	168.0	173.1	173.1	169.6	161.5	146.9	131.8	116.7	106.2	98.1	97.1
75°	129.3	131.8	137.9	133.8	123.3	114.2	98.6	83.0	73.0	65.4	63.9
77.5°	82.5	86.5	86.5	86.0	78.5	69.9	59.9	48.8	41.3	35.7	34.2
80°	54.8	57.4	59.4	57.4	52.3	45.8	38.2	30.7	25.2	20.6	19.6
82.5°	40.3	43.3	44.8	42.8	37.7	32.7	27.2	21.6	16.1	12.6	11.6
85°	15.6	16.1	18.1	21.6	21.1	20.6	16.6	12.1	9.1	6.5	6.0
87.5°	4.0	3.5	4.0	4.0	3.5	3.0	3.0	3.0	3.0	1.5	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)