

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: P452678

Luminaire Tested: **GALN-SA3C-827-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452678  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-827-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12079 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

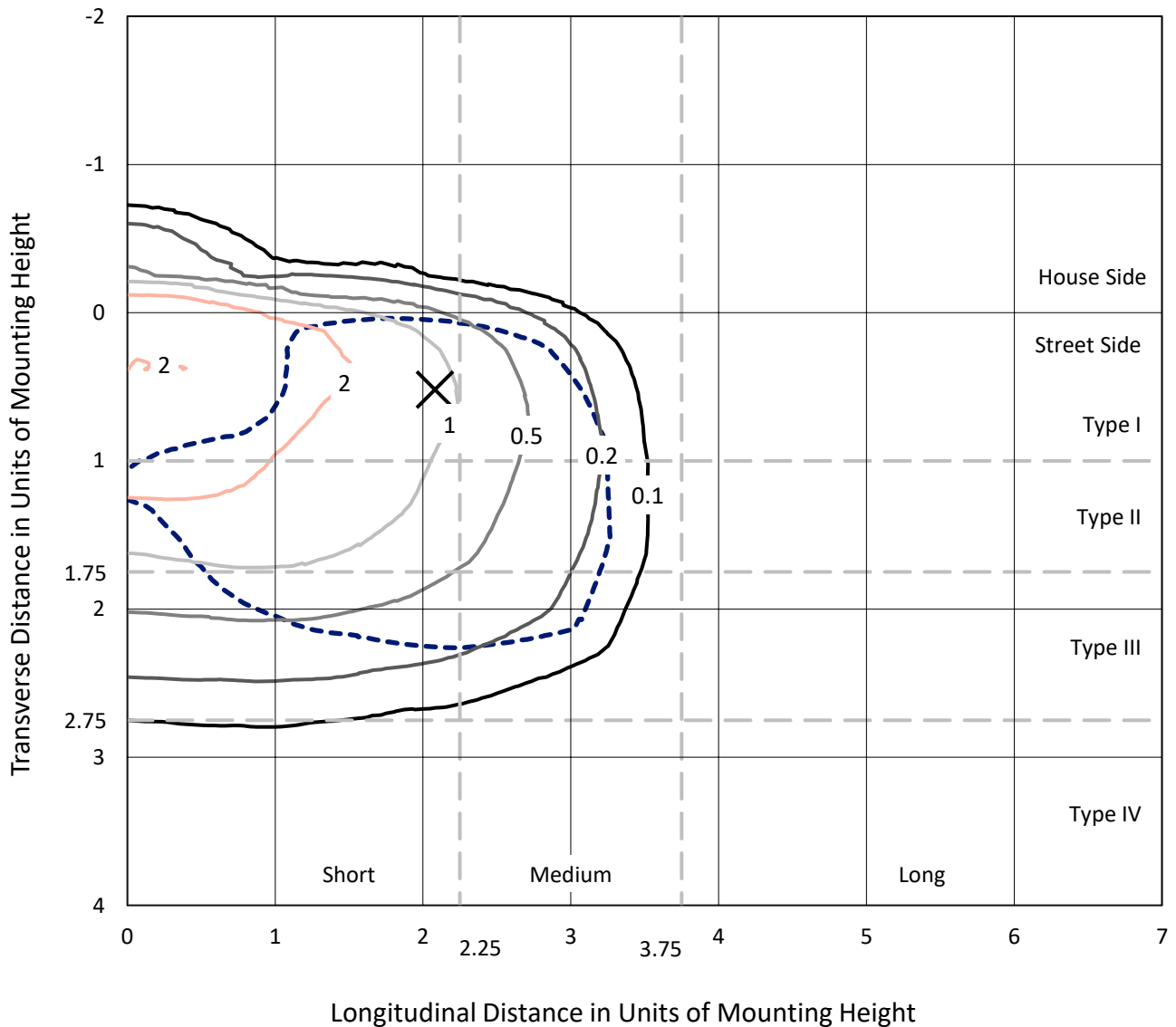
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

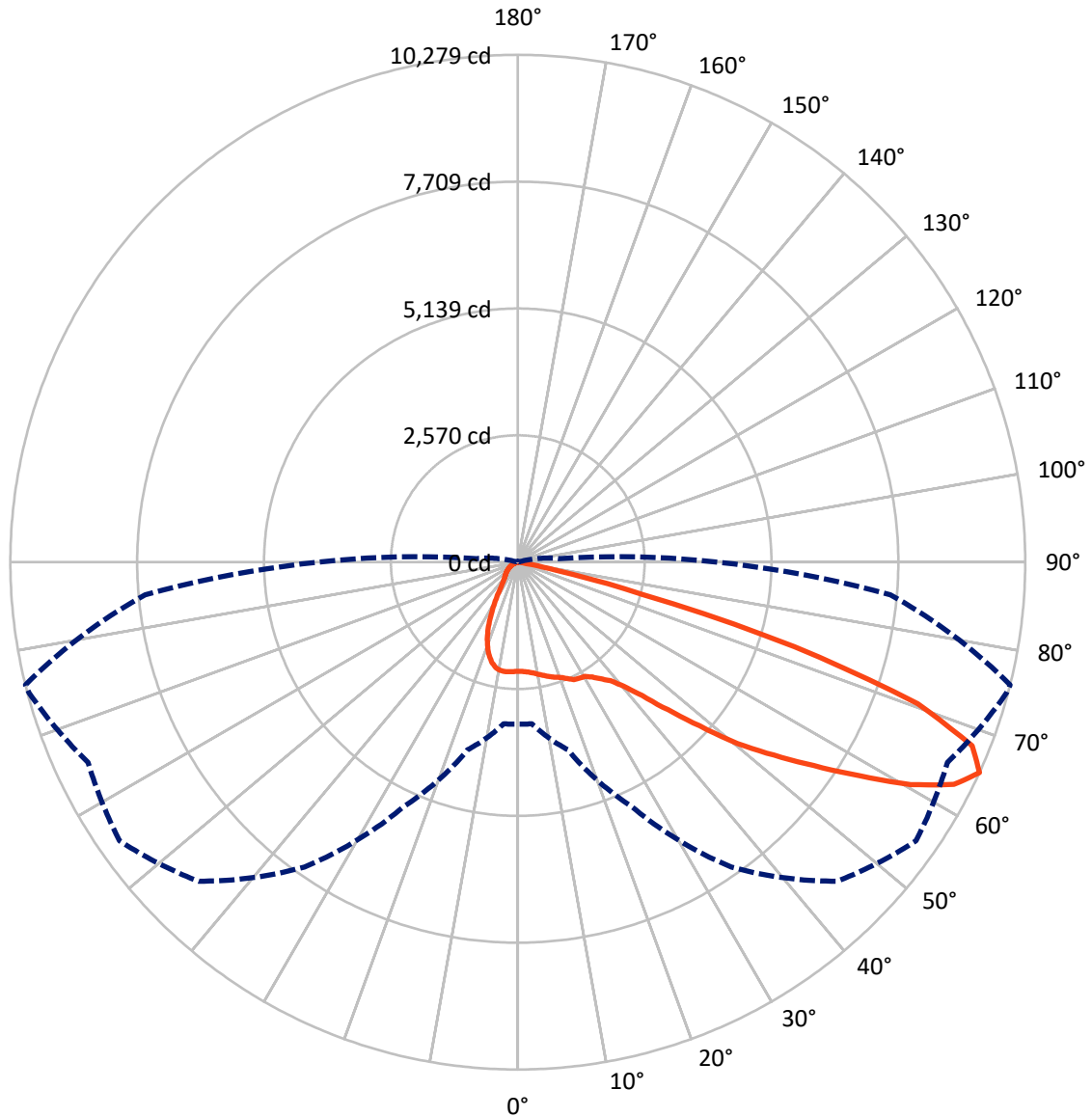
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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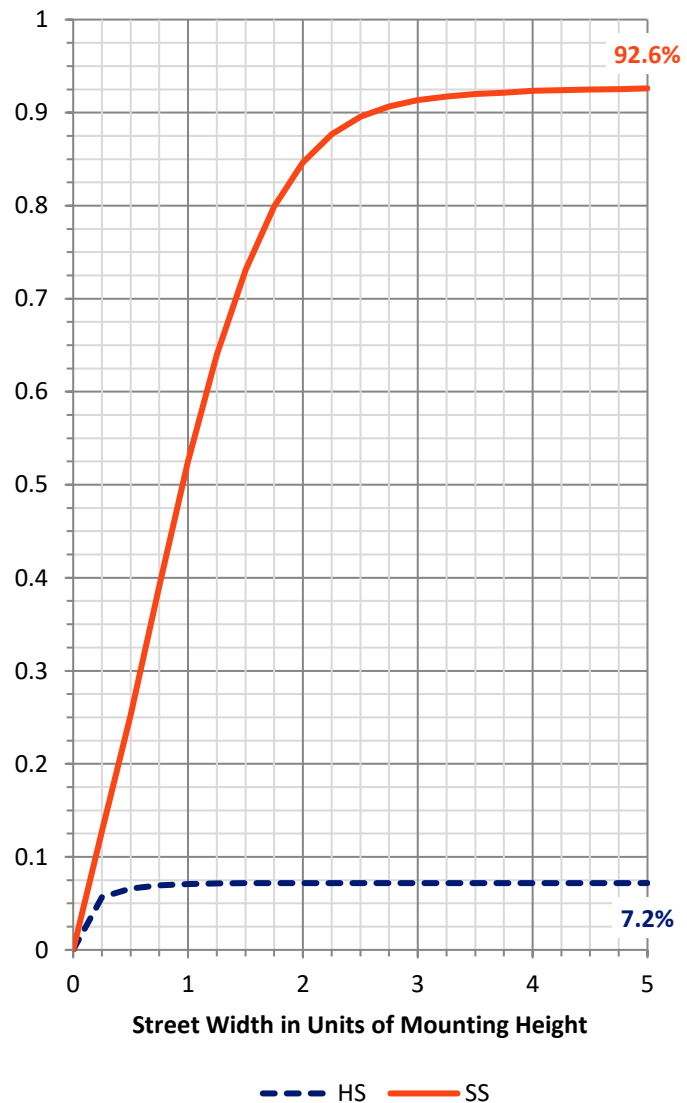
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	872.4	0.0	872.4
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	11206.7	0.0	11206.7
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	12079.0	0.0	12079.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.0	1.5
10°-20°	405.3	3.4
20°-30°	653.1	5.4
30°-40°	1135.6	9.4
40°-50°	1876.4	15.5
50°-60°	2898.7	24.0
60°-70°	3539.7	29.3
70°-80°	1343.4	11.1
80°-90°	44.8	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°	12079.0	100.0
0°-180°	12079.0	100.0



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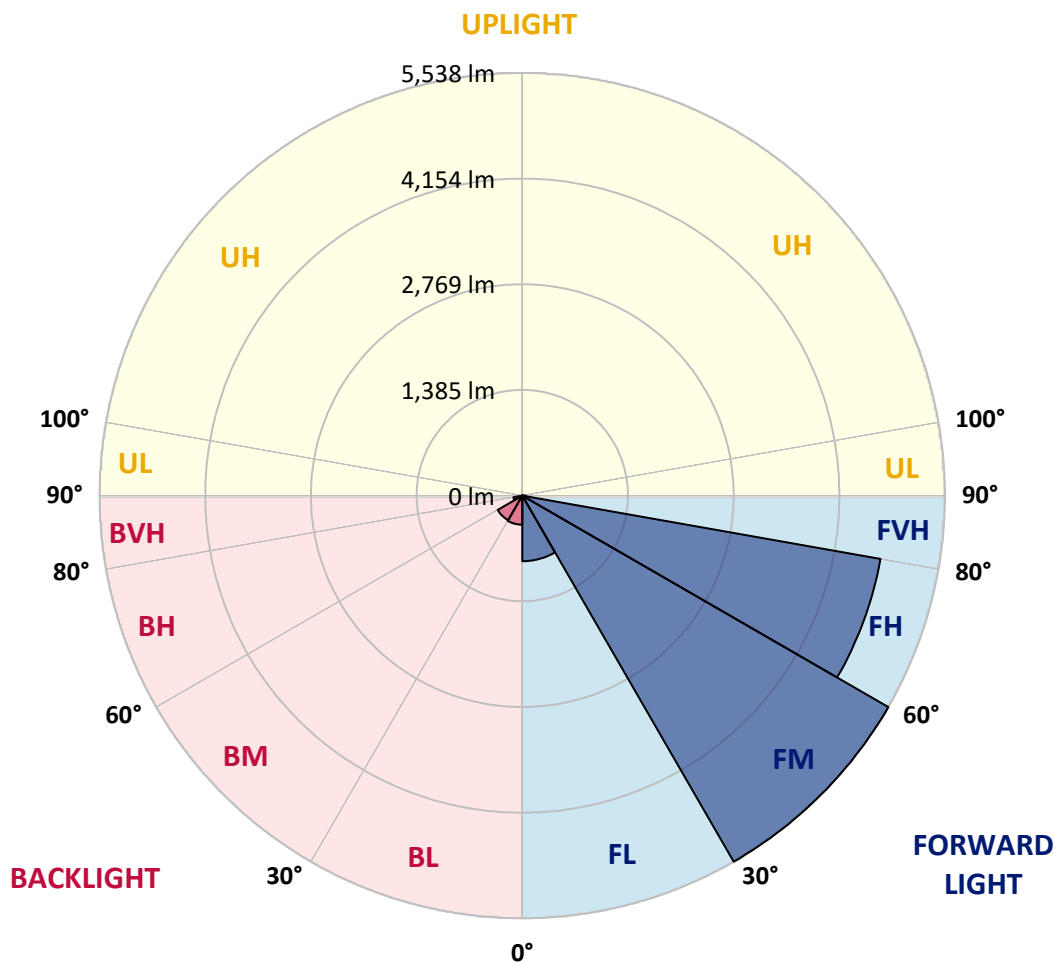
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	859.3	7.1			
FM	(30°-60°)	5538.4	45.9			
FH	(60°-80°)	4764.8	39.4			G2/5000
FVH	(80°-90°)	44.2	0.4			G1/100
BL	(0°-30°)	381.1	3.2	B1/500		
BM	(30°-60°)	372.3	3.1	B1/1000		
BH	(60°-80°)	118.4	1.0	B1/500		G1/500
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2209.6	2209.6	2209.6	2209.6	2209.6	2209.6	2209.6	2209.6	2209.6	2209.6	2209.6
2.5°	2111.6	2112.4	2117.5	2130.3	2149.9	2166.1	2179.8	2202.0	2217.3	2219.0	2224.1
5°	1965.7	1955.5	1965.7	1999.0	2028.8	2074.0	2129.5	2184.9	2234.4	2237.8	2261.7
7.5°	1802.0	1810.5	1826.7	1860.8	1917.1	1986.2	2066.4	2165.3	2259.1	2267.6	2314.5
10°	1635.7	1654.5	1680.9	1732.9	1811.4	1900.9	2010.1	2151.6	2298.3	2310.3	2391.3
12.5°	1482.2	1490.7	1523.1	1593.1	1690.3	1816.5	1967.4	2144.0	2341.8	2356.3	2473.2
15°	1364.5	1375.6	1403.7	1466.8	1575.1	1737.2	1932.5	2141.4	2384.5	2404.9	2555.0
17.5°	1342.3	1349.1	1361.1	1403.7	1498.4	1674.1	1900.9	2140.6	2425.4	2450.1	2630.9
20°	1433.6	1427.6	1415.7	1411.4	1463.4	1625.5	1877.9	2147.4	2464.6	2492.8	2711.1
22.5°	1662.1	1669.8	1599.9	1517.2	1500.1	1617.8	1874.5	2179.8	2526.9	2560.1	2800.6
25°	2147.4	2088.5	1979.4	1781.5	1632.3	1664.7	1912.9	2256.5	2599.4	2636.0	2881.7
27.5°	2683.8	2665.9	2496.2	2170.4	1892.4	1763.6	1981.1	2315.4	2623.2	2660.8	2927.7
30°	3210.8	3232.2	3037.7	2677.8	2270.2	1947.0	2045.0	2337.6	2644.6	2683.8	2986.5
32.5°	3699.5	3725.1	3554.5	3198.0	2715.4	2264.2	2155.1	2423.7	2734.1	2774.2	3084.6
35°	4084.1	4087.5	3958.8	3674.8	3201.5	2649.7	2393.0	2574.6	2855.2	2902.1	3188.7
37.5°	4437.2	4432.1	4281.1	4036.4	3606.5	3032.6	2692.3	2748.6	2993.4	3042.0	3338.8
40°	4699.0	4702.4	4653.8	4423.5	3984.3	3386.5	2929.4	2911.5	3225.3	3301.2	3557.1
42.5°	4873.8	4905.4	4929.3	4812.4	4459.4	3822.3	3293.6	3260.3	3627.9	3691.0	3865.8
45°	5015.4	5071.7	5191.1	5185.1	4915.6	4357.0	3793.3	3725.1	4198.4	4265.8	4258.9
47.5°	5118.6	5175.7	5373.6	5493.0	5344.6	4875.5	4421.8	4363.0	4879.8	4953.1	4693.0
50°	5171.4	5239.7	5492.1	5723.2	5679.7	5375.3	5138.2	5141.6	5702.8	5773.5	5196.2
52.5°	5047.8	5136.5	5555.2	5971.4	6055.8	5853.7	5809.4	5921.9	6435.3	6495.9	5650.7
55°	4652.9	4764.7	5469.1	6182.9	6491.6	6418.3	6571.8	6743.2	7236.1	7275.3	6117.2
57.5°	4403.1	4521.6	5214.9	6362.8	7015.2	7127.8	7370.8	7496.2	8062.5	8162.3	6652.8
60°	4192.4	4285.4	5006.0	6401.2	7547.4	7996.0	8232.2	8361.8	9082.4	9147.3	7242.1
62.5°	3841.9	3948.5	4652.9	6133.4	7815.2	8691.0	9180.5	9122.5	9871.3	9916.5	7603.7
65°	3278.2	3287.6	3936.6	5460.6	7538.9	9142.1	9846.6	9603.5	10248.2	10278.9	7575.5
67.5°	2446.7	2537.1	3028.3	4292.2	6367.9	8756.7	10062.3	9616.3	10010.3	9925.0	6974.3
70°	1576.0	1645.1	2052.7	2976.3	4591.5	7307.7	9346.8	8957.1	8785.7	8596.3	5708.7
72.5°	727.4	816.1	1219.5	1700.5	2723.0	5205.6	7587.5	7277.0	6323.6	5856.3	3628.7
75°	317.2	339.4	602.1	897.2	1276.7	2752.9	5002.6	4517.3	2856.1	2608.8	1452.3
77.5°	193.6	208.1	315.5	481.0	501.5	1049.0	2694.9	1970.8	882.7	778.6	394.0
80°	131.3	147.5	229.4	251.6	171.4	292.5	1011.4	526.2	178.2	170.6	84.4
82.5°	64.0	81.0	169.7	140.7	74.2	93.8	294.2	112.6	52.0	48.6	29.8
85°	9.4	16.2	95.5	92.1	33.3	22.2	52.0	28.1	17.9	17.1	13.6
87.5°	0.0	0.0	32.4	14.5	3.4	3.4	6.0	6.0	6.8	6.0	6.8
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°	2209.6	2209.6	2209.6	2209.6	2209.6	2209.6	2209.6	2209.6	2209.6	2209.6	2209.6
2.5°	2226.7	2231.0	2214.8	2191.7	2167.0	2142.3	2107.3	2075.7	2057.0	2068.1	2040.8
5°	2266.8	2263.4	2220.7	2150.8	2057.8	1946.1	1835.3	1740.6	1709.9	1663.8	1658.7
7.5°	2322.2	2312.8	2222.4	2062.1	1852.3	1642.5	1437.8	1302.2	1224.6	1159.0	1160.7
10°	2399.8	2372.5	2202.8	1906.0	1560.6	1244.3	983.3	804.2	726.6	701.9	682.2
12.5°	2480.0	2427.1	2148.2	1695.4	1215.3	850.3	597.8	488.7	440.9	425.6	423.8
15°	2551.6	2468.0	2052.7	1442.1	883.5	543.2	407.6	371.8	365.9	366.7	365.9
17.5°	2622.4	2500.4	1920.5	1173.5	600.4	389.7	350.5	342.0	344.5	347.9	347.1
20°	2681.2	2507.3	1751.7	895.5	424.7	342.0	329.2	327.5	330.0	332.6	332.6
22.5°	2745.2	2512.4	1551.3	620.0	347.1	318.1	311.3	311.3	314.7	318.1	319.0
25°	2793.0	2484.2	1311.6	445.2	306.2	295.1	291.7	292.5	295.9	297.6	296.8
27.5°	2800.6	2404.9	1057.5	341.1	278.0	266.9	263.5	266.9	262.7	265.2	263.5
30°	2807.5	2304.3	799.9	287.4	252.4	235.4	230.3	225.1	221.7	217.5	216.6
32.5°	2828.8	2185.8	584.2	258.4	228.6	209.8	197.9	183.4	172.3	168.9	168.0
35°	2838.2	2043.3	429.0	235.4	207.2	186.8	165.4	145.0	128.8	122.8	127.1
37.5°	2874.0	1905.2	332.6	218.3	188.5	162.9	135.6	110.0	94.7	91.3	93.0
40°	2947.3	1755.1	278.9	203.8	172.3	140.7	107.5	82.7	72.5	69.1	68.2
42.5°	3065.0	1605.8	248.2	190.2	156.1	118.5	84.4	64.8	56.3	53.7	53.7
45°	3208.3	1462.6	226.8	175.7	139.0	95.5	66.5	52.0	46.9	45.2	45.2
47.5°	3396.7	1337.2	208.9	161.2	120.2	75.9	53.7	45.2	41.8	42.6	43.5
50°	3587.8	1244.3	189.3	145.0	98.9	62.3	46.1	40.1	39.2	40.1	40.1
52.5°	3731.9	1189.7	162.9	122.8	77.6	52.0	40.9	37.5	36.7	35.0	35.0
55°	3926.3	1177.7	129.6	99.8	61.4	43.5	36.7	34.1	31.6	29.8	29.0
57.5°	4176.2	1191.4	99.8	77.6	47.8	35.8	32.4	28.1	24.7	21.3	21.3
60°	4331.4	1160.7	77.6	59.7	35.0	29.0	24.7	20.5	16.2	13.6	12.8
62.5°	4282.0	1031.0	61.4	44.3	24.7	21.3	16.2	13.6	9.4	6.8	6.0
65°	4027.0	832.3	49.5	30.7	17.9	12.8	8.5	8.5	4.3	0.9	0.0
67.5°	3524.7	616.6	39.2	20.5	10.2	6.0	4.3	2.6	0.0	0.0	0.0
70°	2868.9	445.2	30.7	12.8	6.0	4.3	1.7	0.9	0.0	0.0	0.0
72.5°	1821.6	255.0	23.9	7.7	4.3	1.7	0.0	0.0	0.0	0.0	0.0
75°	704.4	99.8	16.2	5.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	199.6	46.9	9.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	52.0	20.5	5.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.7	8.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.5	3.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)