

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: P451866

Luminaire Tested: **GALN-SA2D-730-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451866  
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-SA2D-730-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA 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: 11092 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

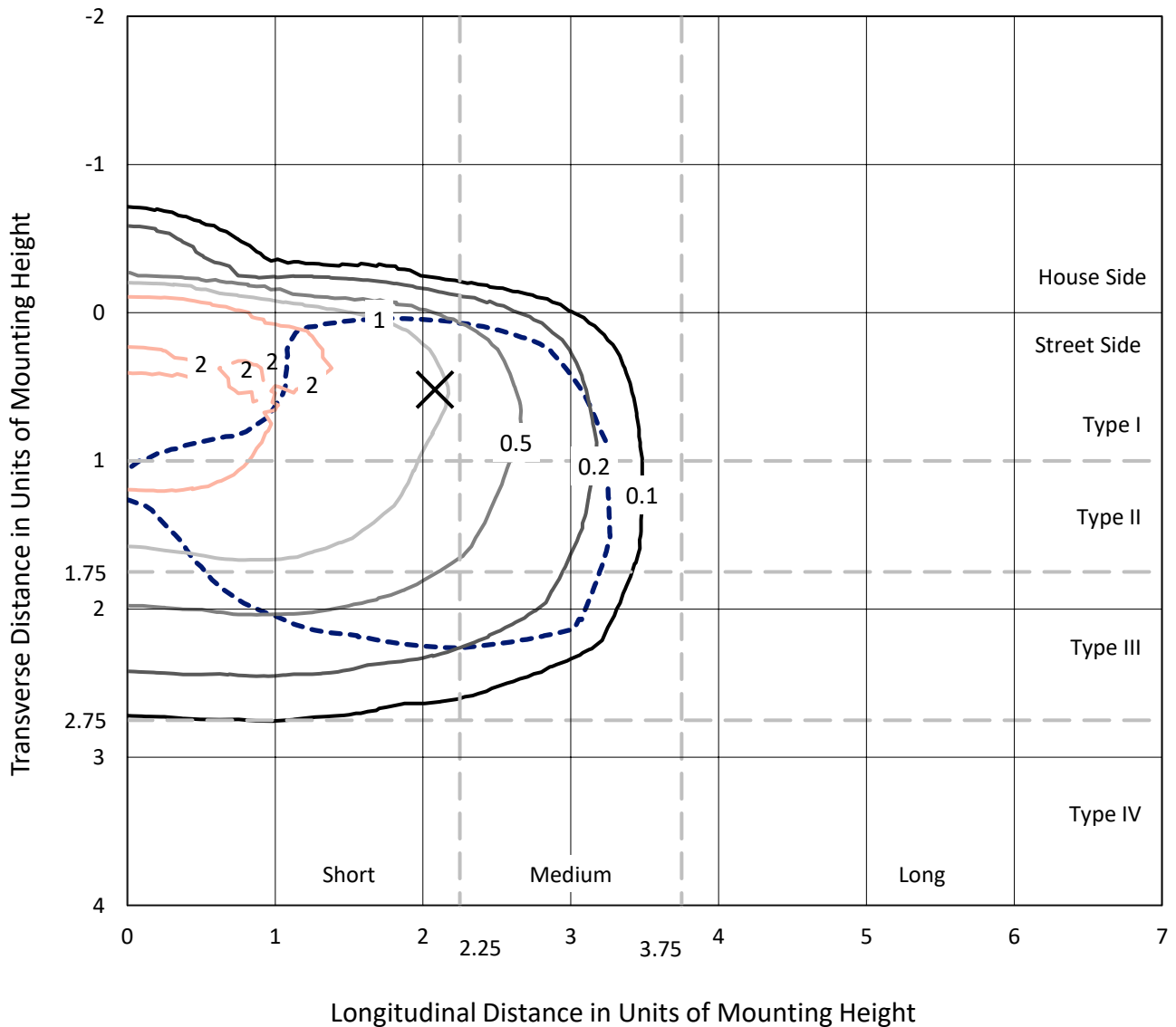
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

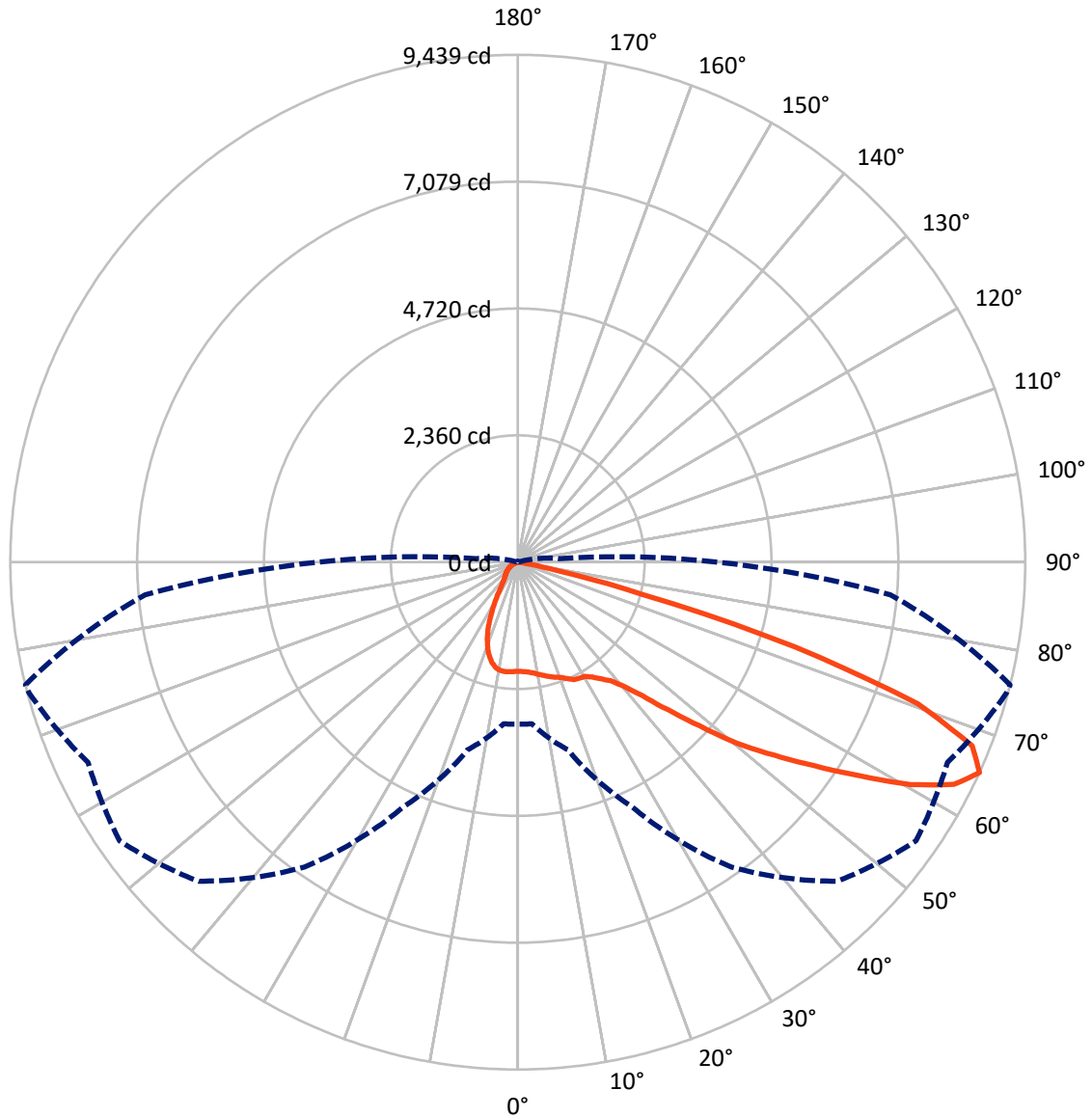
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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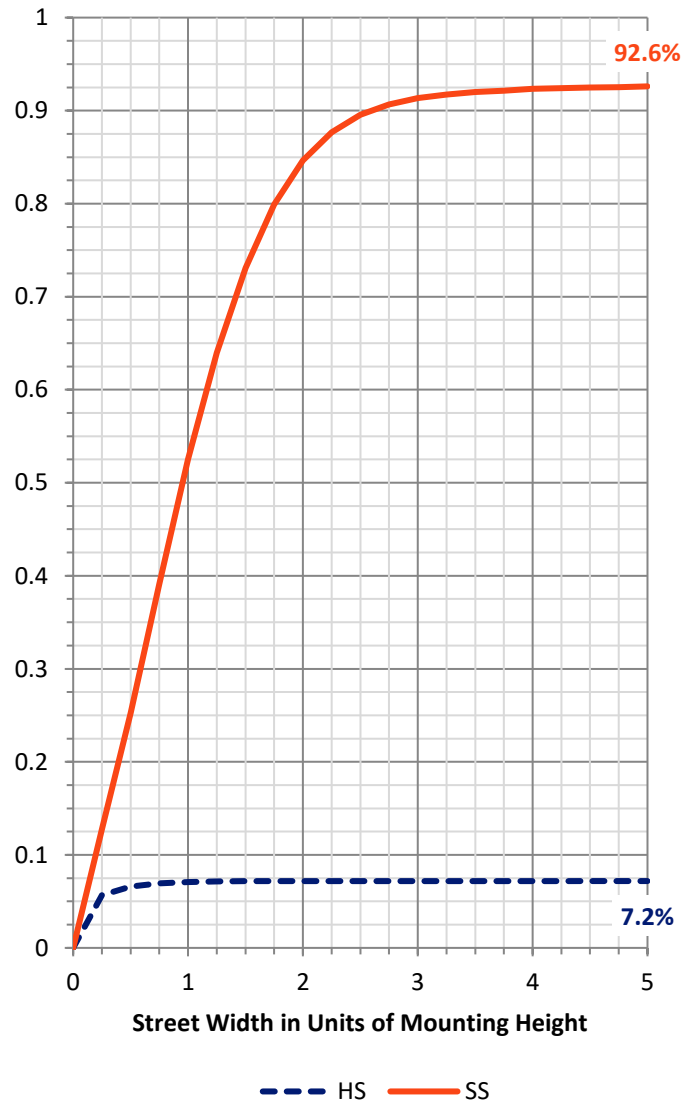
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	801.1	0.0	801.1
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	10290.9	0.0	10290.9
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	11092.0	0.0	11092.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.1	1.5
10°-20°	372.2	3.4
20°-30°	599.7	5.4
30°-40°	1042.8	9.4
40°-50°	1723.1	15.5
50°-60°	2661.8	24.0
60°-70°	3250.5	29.3
70°-80°	1233.6	11.1
80°-90°	41.2	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°	11092.0	100.0
0°-180°	11092.0	100.0



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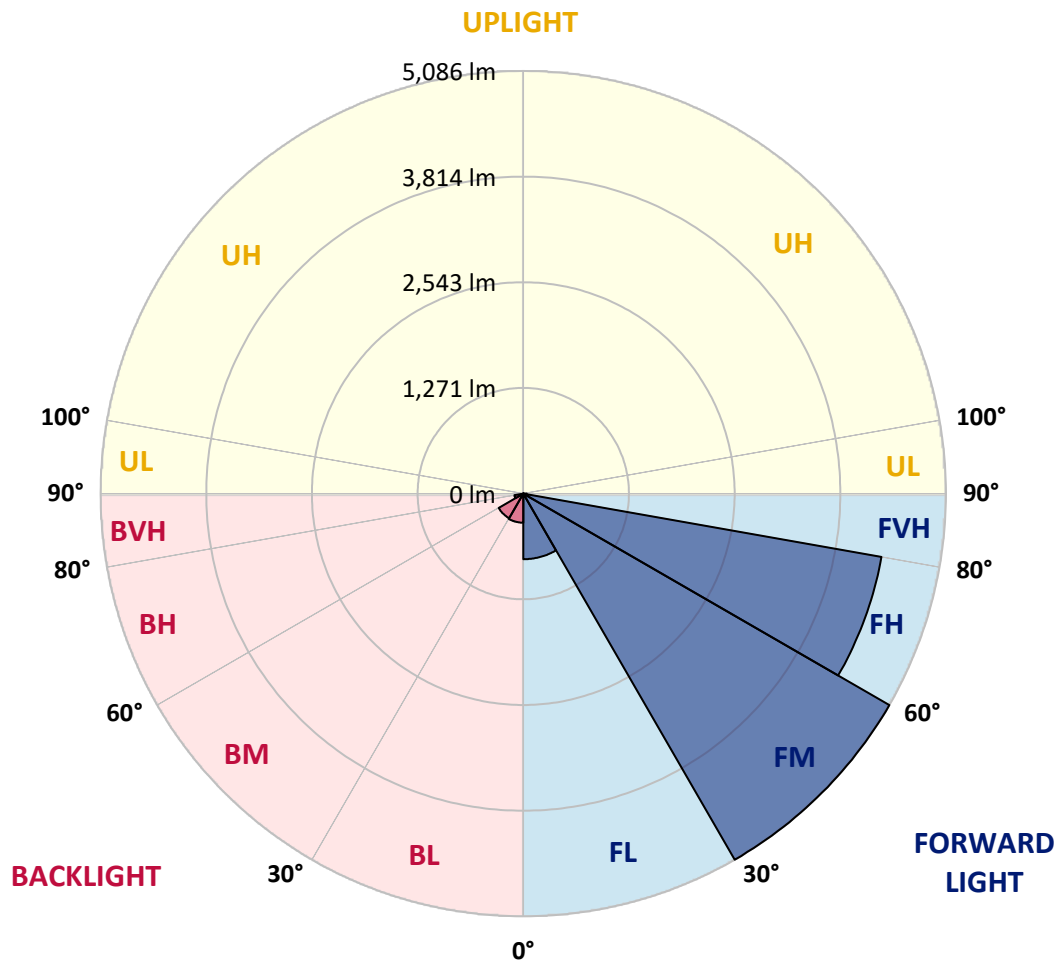
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	789.1	7.1			
FM (30°-60°)	5085.9	45.9			
FH (60°-80°)	4375.4	39.4			G2/5000
FVH (80°-90°)	40.6	0.4			G1/100
BL (0°-30°)	350.0	3.2	B1/500		
BM (30°-60°)	341.8	3.1	B1/1000		
BH (60°-80°)	108.7	1.0	B0/110		G0/110
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°	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1
2.5°	1939.0	1939.8	1944.5	1956.3	1974.3	1989.1	2001.7	2022.0	2036.1	2037.7	2042.4
5°	1805.1	1795.7	1805.1	1835.6	1863.1	1904.6	1955.5	2006.4	2051.8	2054.9	2076.9
7.5°	1654.7	1662.6	1677.5	1708.8	1760.5	1823.9	1897.5	1988.4	2074.5	2082.3	2125.4
10°	1502.0	1519.3	1543.5	1591.3	1663.4	1745.6	1845.8	1975.8	2110.5	2121.5	2195.9
12.5°	1361.1	1368.9	1398.7	1462.9	1552.2	1668.1	1806.7	1968.8	2150.5	2163.8	2271.1
15°	1253.0	1263.2	1289.0	1347.0	1446.4	1595.2	1774.6	1966.4	2189.6	2208.4	2346.2
17.5°	1232.6	1238.9	1249.9	1289.0	1376.0	1537.3	1745.6	1965.6	2227.2	2249.9	2415.9
20°	1316.4	1311.0	1300.0	1296.1	1343.8	1492.6	1724.4	1971.9	2263.2	2289.1	2489.6
22.5°	1526.3	1533.4	1469.1	1393.2	1377.5	1485.6	1721.3	2001.7	2320.4	2350.9	2571.8
25°	1971.9	1917.9	1817.6	1636.0	1498.9	1528.7	1756.6	2072.2	2387.0	2420.6	2646.2
27.5°	2464.5	2448.1	2292.2	1993.1	1737.8	1619.5	1819.2	2126.2	2408.9	2443.4	2688.5
30°	2948.5	2968.0	2789.5	2459.0	2084.7	1787.9	1877.9	2146.5	2428.5	2464.5	2742.5
32.5°	3397.2	3420.7	3264.1	2936.7	2493.5	2079.2	1979.0	2225.6	2510.7	2547.5	2832.6
35°	3750.4	3753.5	3635.3	3374.5	2939.9	2433.2	2197.5	2364.3	2621.9	2665.0	2928.1
37.5°	4074.6	4069.9	3931.3	3706.5	3311.8	2784.8	2472.3	2524.0	2748.8	2793.4	3065.9
40°	4315.0	4318.2	4273.5	4062.1	3658.8	3109.8	2690.0	2673.6	2961.8	3031.5	3266.4
42.5°	4475.6	4504.5	4526.5	4419.2	4095.0	3510.0	3024.4	2993.9	3331.4	3389.4	3549.9
45°	4605.6	4657.3	4766.9	4761.4	4513.9	4001.0	3483.3	3420.7	3855.3	3917.2	3910.9
47.5°	4700.3	4752.8	4934.5	5044.1	4907.9	4477.1	4060.5	4006.5	4481.0	4548.4	4309.5
50°	4748.9	4811.5	5043.3	5255.6	5215.6	4936.0	4718.3	4721.5	5236.8	5301.8	4771.6
52.5°	4635.3	4716.8	5101.3	5483.5	5561.0	5375.4	5334.7	5438.0	5909.5	5965.1	5189.0
55°	4272.7	4375.3	5022.2	5677.7	5961.2	5893.8	6034.8	6192.2	6644.8	6680.9	5617.4
57.5°	4043.3	4152.1	4788.8	5842.9	6442.0	6545.4	6768.6	6883.7	7403.7	7495.3	6109.2
60°	3849.8	3935.2	4597.0	5878.1	6930.7	7342.6	7559.5	7678.6	8340.3	8399.8	6650.3
62.5°	3528.0	3625.9	4272.7	5632.2	7176.6	7980.8	8430.4	8377.1	9064.7	9106.2	6982.4
65°	3010.3	3019.0	3614.9	5014.4	6922.8	8395.1	9042.0	8818.8	9410.8	9439.0	6956.5
67.5°	2246.8	2329.8	2780.9	3941.5	5847.6	8041.1	9240.1	8830.5	9192.3	9114.0	6404.4
70°	1447.2	1510.7	1885.0	2733.1	4216.4	6710.6	8583.1	8225.2	8067.8	7893.9	5242.2
72.5°	668.0	749.5	1119.9	1561.6	2500.5	4780.2	6967.5	6682.4	5806.9	5377.7	3332.2
75°	291.3	311.7	552.9	823.8	1172.3	2527.9	4593.8	4148.2	2622.7	2395.6	1333.7
77.5°	177.8	191.1	289.8	441.7	460.5	963.2	2474.7	1809.8	810.5	715.0	361.8
80°	120.6	135.5	210.7	231.0	157.4	268.6	928.8	483.2	163.7	156.6	77.5
82.5°	58.7	74.4	155.8	129.2	68.1	86.1	270.2	103.4	47.8	44.6	27.4
85°	8.6	14.9	87.7	84.6	30.5	20.4	47.8	25.8	16.4	15.7	12.5
87.5°	0.0	0.0	29.8	13.3	3.1	3.1	5.5	5.5	6.3	5.5	6.3
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°	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1
2.5°	2044.7	2048.7	2033.8	2012.6	1989.9	1967.2	1935.1	1906.1	1888.9	1899.1	1874.0
5°	2081.6	2078.4	2039.3	1975.0	1889.7	1787.1	1685.3	1598.4	1570.2	1527.9	1523.2
7.5°	2132.5	2123.8	2040.8	1893.6	1701.0	1508.3	1320.4	1195.8	1124.6	1064.3	1065.8
10°	2203.7	2178.7	2022.8	1750.3	1433.1	1142.6	902.9	738.5	667.2	644.5	626.5
12.5°	2277.3	2228.8	1972.7	1556.9	1116.0	780.8	549.0	448.7	404.9	390.8	389.2
15°	2343.1	2266.4	1885.0	1324.3	811.3	498.9	374.3	341.4	336.0	336.7	336.0
17.5°	2408.1	2296.1	1763.6	1077.6	551.3	357.9	321.9	314.0	316.4	319.5	318.7
20°	2462.1	2302.4	1608.5	822.3	390.0	314.0	302.3	300.7	303.1	305.4	305.4
22.5°	2520.9	2307.1	1424.5	569.3	318.7	292.1	285.8	285.8	289.0	292.1	292.9
25°	2564.7	2281.2	1204.4	408.8	281.1	271.0	267.8	268.6	271.7	273.3	272.5
27.5°	2571.8	2208.4	971.1	313.3	255.3	245.1	242.0	245.1	241.2	243.6	242.0
30°	2578.1	2116.0	734.6	263.9	231.8	216.1	211.4	206.7	203.6	199.7	198.9
32.5°	2597.6	2007.2	536.4	237.3	209.9	192.6	181.7	168.4	158.2	155.1	154.3
35°	2606.2	1876.4	393.9	216.1	190.3	171.5	151.9	133.1	118.3	112.8	116.7
37.5°	2639.1	1749.5	305.4	200.5	173.1	149.6	124.5	101.0	86.9	83.8	85.4
40°	2706.5	1611.7	256.1	187.2	158.2	129.2	98.7	76.0	66.6	63.4	62.7
42.5°	2814.6	1474.6	227.9	174.6	143.3	108.9	77.5	59.5	51.7	49.3	49.3
45°	2946.1	1343.1	208.3	161.3	127.6	87.7	61.1	47.8	43.1	41.5	41.5
47.5°	3119.2	1227.9	191.9	148.0	110.4	69.7	49.3	41.5	38.4	39.2	39.9
50°	3294.6	1142.6	173.9	133.1	90.8	57.2	42.3	36.8	36.0	36.8	36.8
52.5°	3427.0	1092.5	149.6	112.8	71.3	47.8	37.6	34.5	33.7	32.1	32.1
55°	3605.5	1081.5	119.0	91.6	56.4	39.9	33.7	31.3	29.0	27.4	26.6
57.5°	3835.0	1094.0	91.6	71.3	43.9	32.9	29.8	25.8	22.7	19.6	19.6
60°	3977.5	1065.8	71.3	54.8	32.1	26.6	22.7	18.8	14.9	12.5	11.7
62.5°	3932.1	946.8	56.4	40.7	22.7	19.6	14.9	12.5	8.6	6.3	5.5
65°	3697.9	764.3	45.4	28.2	16.4	11.7	7.8	7.8	3.9	0.8	0.0
67.5°	3236.7	566.2	36.0	18.8	9.4	5.5	3.9	2.3	0.0	0.0	0.0
70°	2634.4	408.8	28.2	11.7	5.5	3.9	1.6	0.8	0.0	0.0	0.0
72.5°	1672.8	234.2	21.9	7.0	3.9	1.6	0.0	0.0	0.0	0.0	0.0
75°	646.9	91.6	14.9	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	183.3	43.1	8.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	47.8	18.8	4.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.7	7.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.3	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	0.8	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)