

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: P454393

Luminaire Tested: **GALN-SA5C-727-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454393  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5C-727-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21300 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

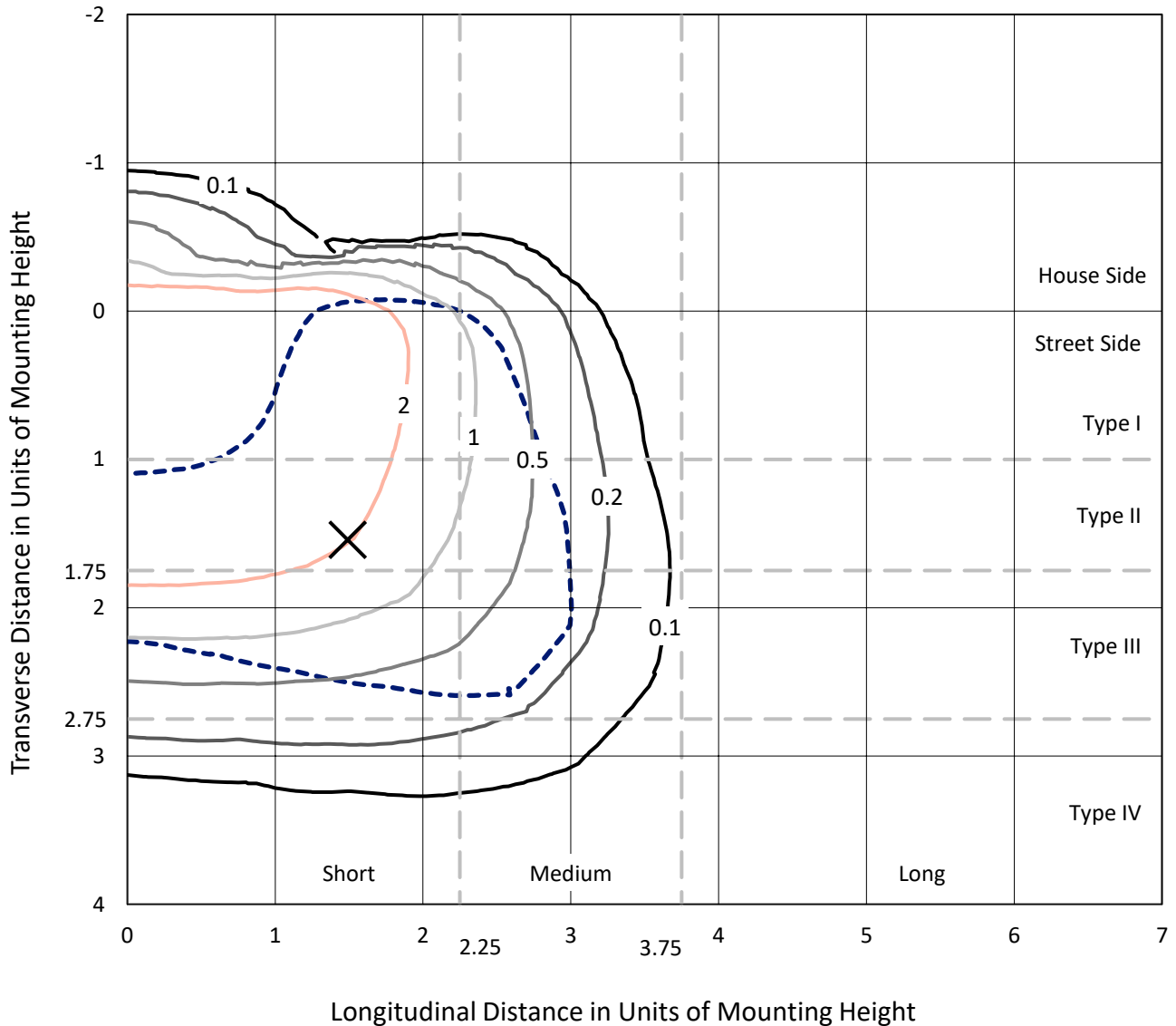
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

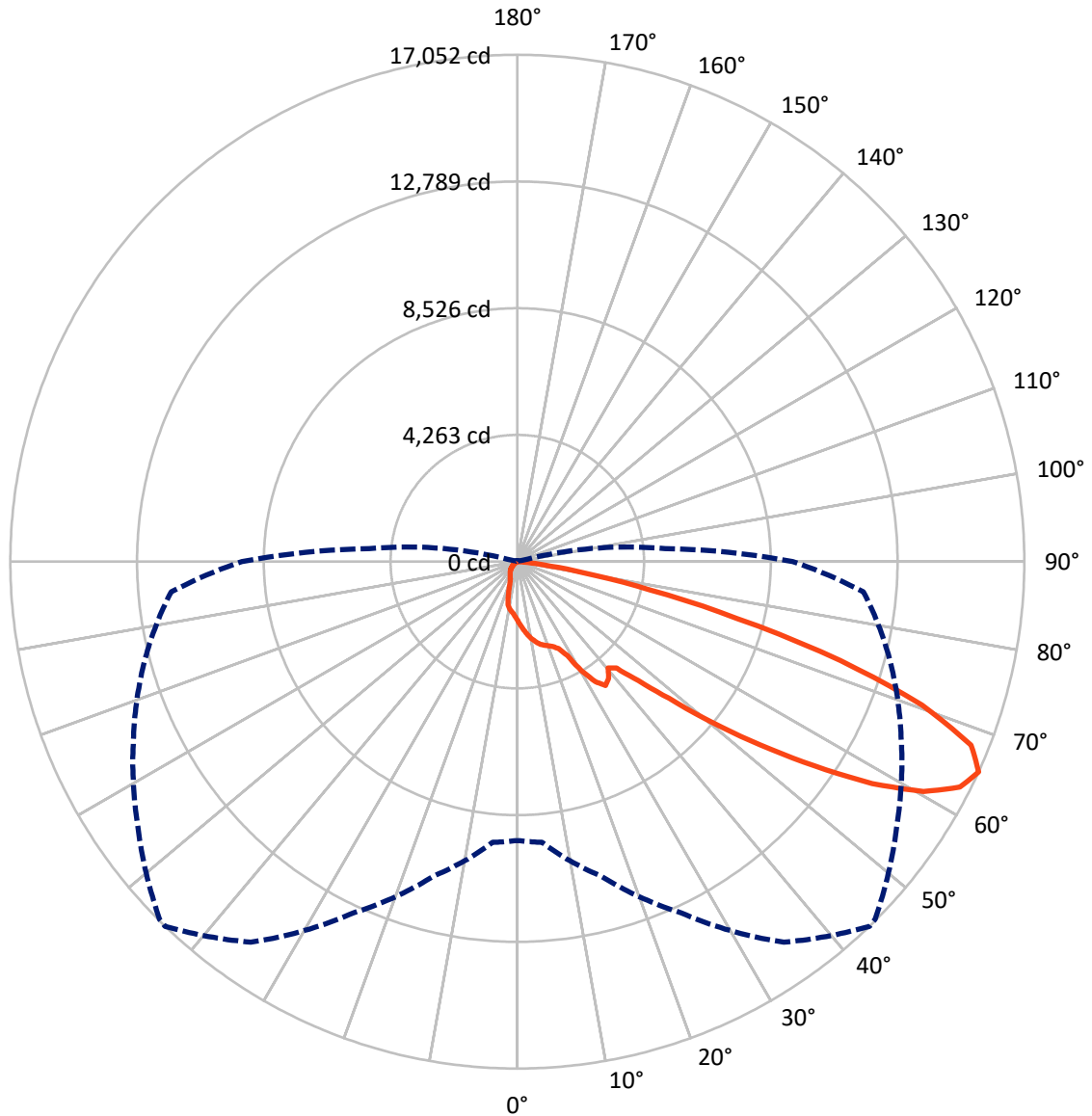
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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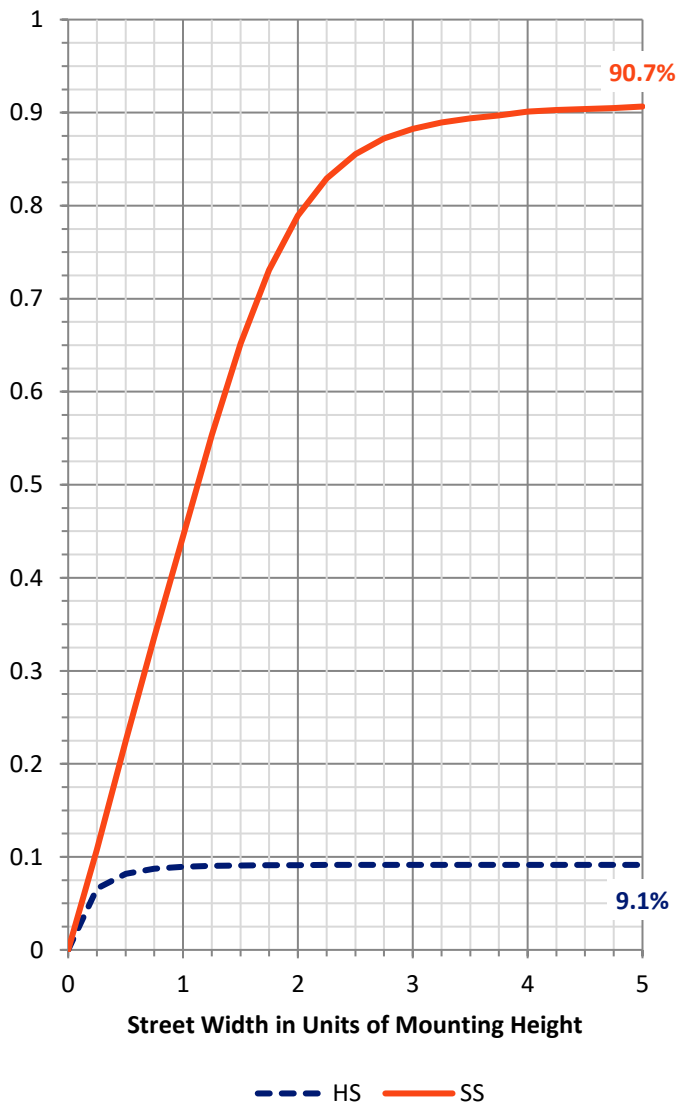
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1962.5	0.0	1962.5
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	19337.5	0.0	19337.5
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	21300.0	0.0	21300.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.2	0.9
10°-20°	593.4	2.8
20°-30°	1006.2	4.7
30°-40°	1673.0	7.9
40°-50°	2921.1	13.7
50°-60°	5706.8	26.8
60°-70°	6621.2	31.1
70°-80°	2411.1	11.3
80°-90°	169.9	0.8
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°	21300.0	100.0
0°-180°	21300.0	100.0

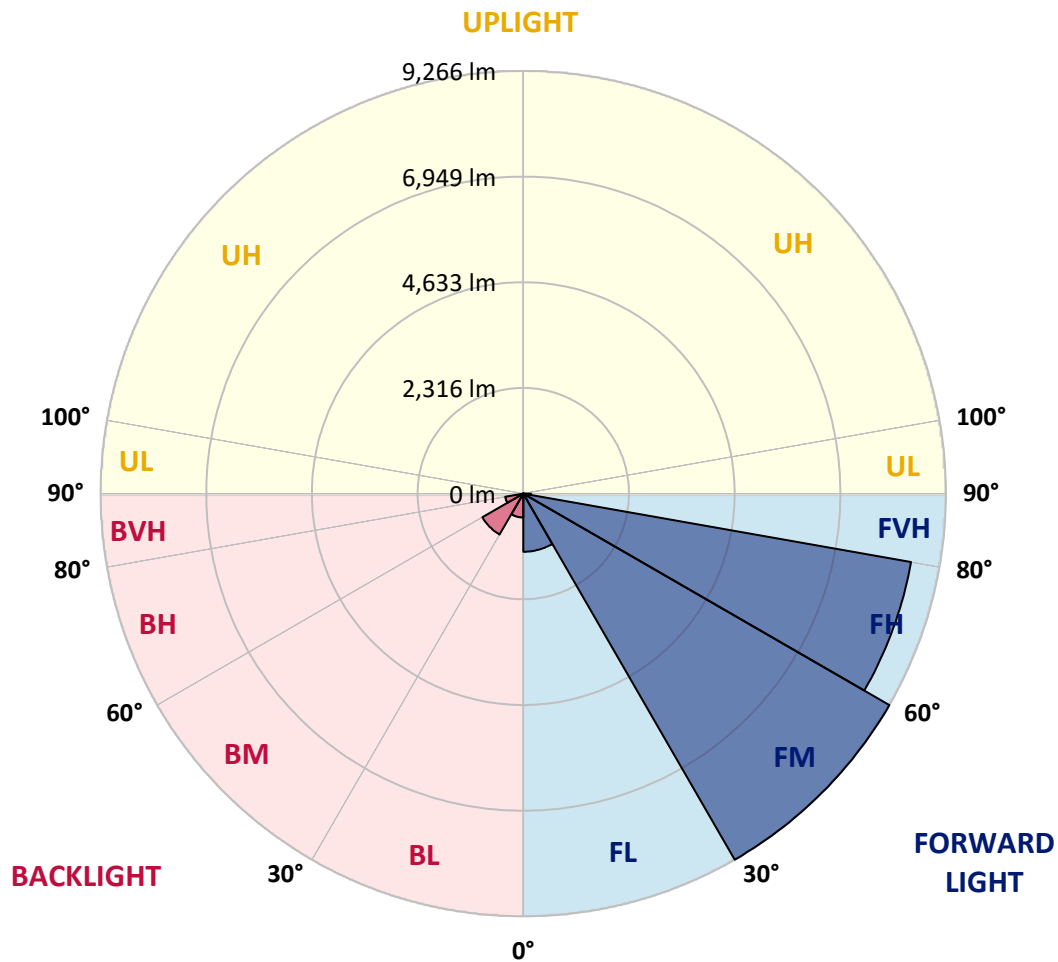


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1273.9	6.0			
FM	(30°-60°)	9265.5	43.5			
FH	(60°-80°)	8630.5	40.5			G4/12000
FVH	(80°-90°)	167.6	0.8			G2/225
BL	(0°-30°)	522.9	2.5	B2/1000		
BM	(30°-60°)	1035.4	4.9	B2/2500		
BH	(60°-80°)	401.9	1.9	B1/500		G1/500
BVH	(80°-90°)	2.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1982.4	1982.4	1982.4	1982.4	1982.4	1982.4	1982.4	1982.4	1982.4	1982.4	1982.4
2.5°	2231.4	2221.6	2216.8	2190.7	2171.2	2146.8	2146.8	2115.9	2080.0	2041.0	2005.2
5°	2480.4	2464.2	2443.0	2420.2	2374.6	2309.5	2309.5	2244.4	2169.6	2102.8	2029.6
7.5°	2719.7	2705.0	2669.2	2625.3	2550.4	2482.1	2477.2	2382.8	2293.3	2192.4	2088.2
10°	2929.6	2918.3	2887.3	2802.7	2724.6	2635.1	2633.4	2527.6	2423.5	2299.8	2171.2
12.5°	3076.1	3077.8	3037.1	2955.7	2854.8	2770.1	2763.6	2659.5	2550.4	2417.0	2259.1
15°	3180.3	3180.3	3138.0	3046.8	2955.7	2880.8	2874.3	2783.2	2670.9	2526.0	2355.1
17.5°	3209.6	3219.4	3173.8	3092.4	3019.2	2954.1	2952.4	2875.9	2786.4	2646.4	2452.8
20°	3198.2	3208.0	3172.2	3108.7	3058.2	3020.8	3015.9	2985.0	2902.0	2770.1	2556.9
22.5°	3173.8	3183.6	3157.5	3120.1	3095.7	3107.1	3098.9	3125.0	3081.0	2921.5	2680.6
25°	3178.7	3188.4	3168.9	3147.7	3168.9	3238.9	3260.0	3372.3	3333.3	3113.6	2814.1
27.5°	3331.7	3351.2	3323.5	3333.3	3408.2	3570.9	3611.6	3805.3	3632.8	3357.7	3022.4
30°	3671.8	3658.8	3606.7	3653.9	3914.3	4259.4	4248.0	4217.1	3946.9	3639.3	3269.8
32.5°	3981.1	3969.7	3966.4	4169.9	4641.9	4809.5	4801.4	4501.9	4228.5	3961.5	3513.9
35°	4106.4	4062.4	4052.7	4545.8	5335.2	5113.9	5063.4	4619.1	4570.3	4313.1	3763.0
37.5°	4484.0	4453.1	4301.7	4607.7	5058.5	4985.3	4946.2	4820.9	4934.8	4624.0	4044.5
40°	5262.0	5175.7	5039.0	4739.5	4666.3	4697.2	4736.3	5079.7	5366.1	5048.8	4420.5
42.5°	6228.8	6209.2	5955.3	5397.1	4848.6	4890.9	4941.3	5620.0	5986.2	5688.4	5034.1
45°	7389.2	7416.9	7050.7	6391.5	5672.1	5707.9	5781.2	6417.6	6826.1	6682.9	5999.3
47.5°	8443.9	8422.7	8299.0	7613.8	6949.8	6870.0	6988.8	7441.3	7988.2	8011.0	7197.2
50°	9505.1	9617.4	9433.5	9164.9	8671.8	8504.1	8460.2	8681.5	9514.8	9405.8	8635.9
52.5°	11030.1	11088.7	10743.7	10675.3	10787.6	10244.0	10200.1	10253.8	10999.2	10624.9	9713.4
55°	11988.8	11954.6	11826.0	12359.9	12804.2	12125.5	12070.1	11853.7	12231.3	11485.8	10750.2
57.5°	12291.5	12340.3	12639.8	13605.0	14656.4	14080.2	13979.3	13364.1	13119.9	12288.2	11703.9
60°	12156.4	12245.9	12892.1	14327.6	15785.9	15699.7	15613.4	14579.9	13757.9	12958.8	12372.9
62.5°	11194.5	11319.8	12353.3	14199.0	16168.4	16707.1	16599.7	15338.3	14182.7	13284.3	12490.1
65°	9381.4	9474.2	10958.5	13032.0	15624.8	17052.2	17013.1	15576.0	14249.5	12986.5	11687.7
67.5°	6687.7	7003.5	8378.8	10982.9	14016.7	16463.0	16529.7	15291.1	13622.9	11699.1	9679.2
70°	4204.0	4418.9	5405.2	7862.8	11236.8	14443.2	14662.9	13987.4	11822.8	9119.3	6479.4
72.5°	2005.2	2164.7	2867.8	4977.1	7931.2	11363.8	11537.9	11482.6	9142.1	5745.4	3343.1
75°	893.5	953.8	1368.8	2540.7	5120.4	7638.2	8089.1	8164.0	5712.8	2810.8	1300.4
77.5°	455.7	457.4	641.3	1230.5	2556.9	4557.2	4646.7	4908.8	3097.3	1238.6	452.5
80°	242.5	258.8	340.2	581.0	1326.5	2244.4	2233.0	2454.4	1373.7	607.1	151.4
82.5°	109.0	120.4	192.1	304.4	647.8	851.2	918.0	1004.2	589.2	387.4	66.7
85°	32.6	39.1	94.4	153.0	234.4	245.8	275.1	354.8	333.7	275.1	34.2
87.5°	4.9	4.9	39.1	42.3	34.2	43.9	45.6	50.5	107.4	100.9	17.9
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°	1982.4	1982.4	1982.4	1982.4	1982.4	1982.4	1982.4	1982.4	1982.4	1982.4	1982.4
2.5°	1985.6	1974.3	1933.6	1899.4	1870.1	1852.2	1831.0	1818.0	1811.5	1806.6	1808.2
5°	1993.8	1966.1	1896.1	1840.8	1798.5	1752.9	1722.0	1704.1	1695.9	1682.9	1682.9
7.5°	2039.4	1995.4	1897.8	1813.1	1739.9	1678.0	1619.4	1598.3	1583.6	1580.4	1577.1
10°	2104.5	2049.1	1915.7	1798.5	1694.3	1609.7	1526.7	1453.4	1396.5	1362.3	1357.4
12.5°	2185.8	2106.1	1943.3	1788.7	1655.3	1505.5	1285.8	1137.7	1038.4	1007.5	1012.4
15°	2260.7	2174.4	1971.0	1780.6	1583.6	1248.4	999.3	830.1	779.6	774.7	776.4
17.5°	2350.2	2247.7	2003.6	1769.2	1386.7	953.8	742.2	696.6	706.4	722.6	721.0
20°	2443.0	2325.8	2042.6	1700.8	1106.8	717.8	655.9	660.8	675.4	690.1	693.3
22.5°	2542.3	2415.3	2088.2	1536.4	844.7	625.0	621.7	628.2	642.9	659.2	662.4
25°	2679.0	2527.6	2122.4	1321.6	639.6	577.8	584.3	595.7	608.7	626.6	629.9
27.5°	2854.8	2679.0	2140.3	1041.7	553.4	535.5	537.1	553.4	569.7	585.9	585.9
30°	3082.6	2859.7	2104.5	787.7	511.1	494.8	488.3	498.0	519.2	535.5	537.1
32.5°	3286.1	3030.6	2010.1	602.2	480.1	457.4	441.1	442.7	450.8	460.6	462.2
35°	3489.5	3196.6	1848.9	506.2	447.6	421.5	397.1	384.1	377.6	372.7	377.6
37.5°	3749.9	3403.3	1634.1	460.6	419.9	387.4	353.2	325.5	302.7	288.1	291.3
40°	4085.2	3689.7	1380.2	431.3	393.9	354.8	309.2	273.4	234.4	221.4	214.8
42.5°	4638.6	4124.3	1113.3	406.9	367.8	320.6	263.7	214.8	179.0	166.0	169.3
45°	5512.6	4672.8	857.7	380.9	341.8	283.2	221.4	169.3	140.0	133.5	136.7
47.5°	6671.5	5382.4	660.8	351.6	309.2	242.5	174.2	133.5	115.6	113.9	112.3
50°	7761.9	6043.2	551.8	319.0	270.2	201.8	143.2	112.3	100.9	99.3	99.3
52.5°	8748.3	6516.8	449.2	281.6	227.9	166.0	120.4	99.3	89.5	84.6	84.6
55°	9625.5	6826.1	364.6	236.0	179.0	131.8	104.2	89.5	78.1	71.6	70.0
57.5°	10287.9	6863.5	273.4	188.8	133.5	102.5	89.5	78.1	65.1	57.0	53.7
60°	10571.1	6539.6	201.8	143.2	99.3	81.4	71.6	63.5	48.8	40.7	39.1
62.5°	10286.3	5909.7	149.7	109.0	76.5	60.2	50.5	47.2	34.2	24.4	22.8
65°	9265.8	4999.9	118.8	83.0	57.0	43.9	32.6	30.9	21.2	11.4	9.8
67.5°	7423.4	3916.0	94.4	61.8	40.7	29.3	21.2	19.5	11.4	3.3	3.3
70°	4827.4	2503.2	76.5	45.6	26.0	19.5	13.0	9.8	6.5	1.6	0.0
72.5°	2387.7	1170.2	61.8	35.8	17.9	9.8	4.9	3.3	4.9	0.0	0.0
75°	926.1	416.7	45.6	24.4	9.8	4.9	3.3	0.0	1.6	0.0	0.0
77.5°	307.6	138.3	27.7	13.0	6.5	3.3	0.0	0.0	0.0	0.0	0.0
80°	113.9	53.7	14.6	8.1	3.3	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	45.6	21.2	9.8	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.8	13.0	6.5	4.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.3	9.8	6.5	4.9	3.3	1.6	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)