

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: P453488

Luminaire Tested: **GALN-SA4C-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18596 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

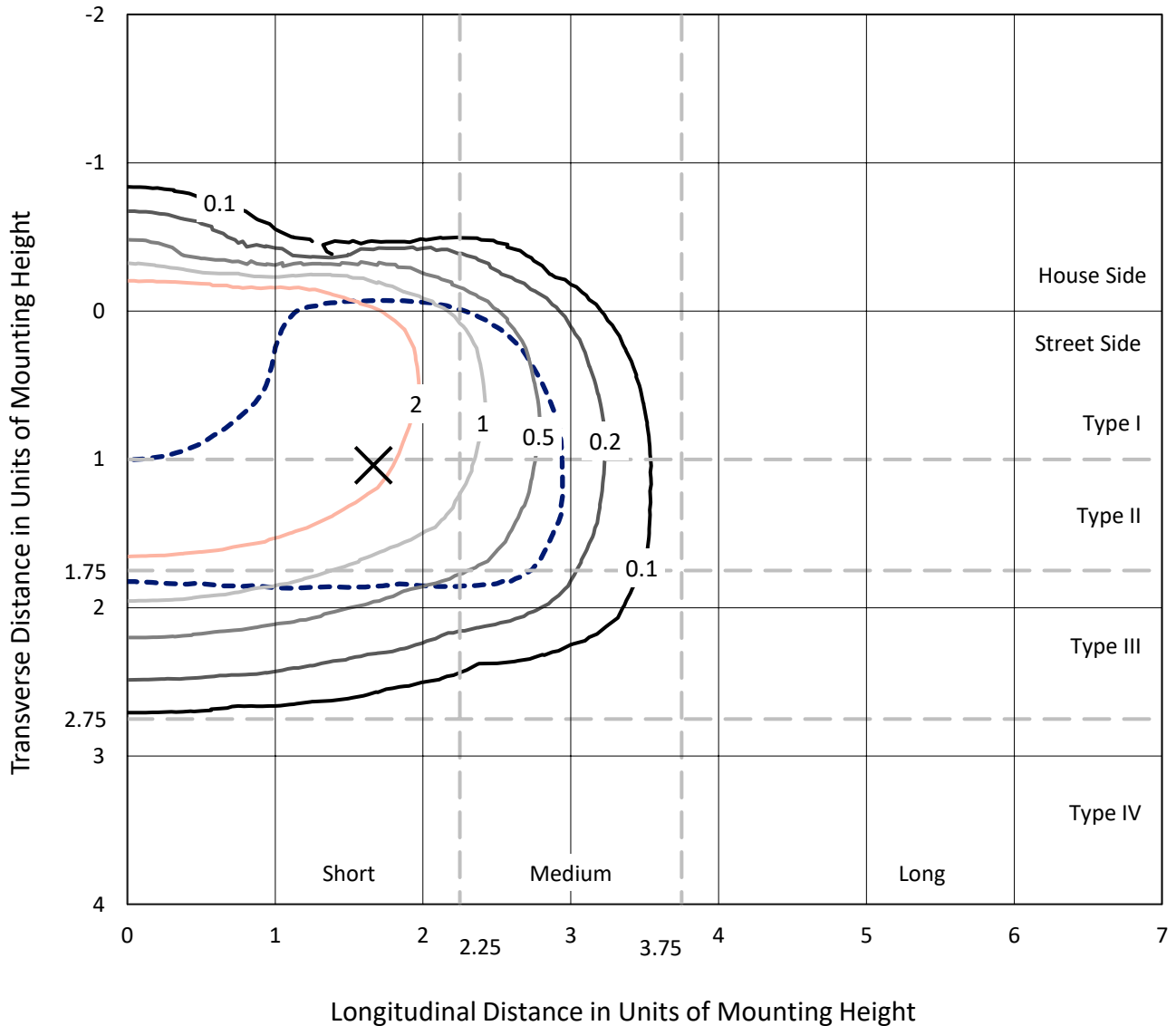
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

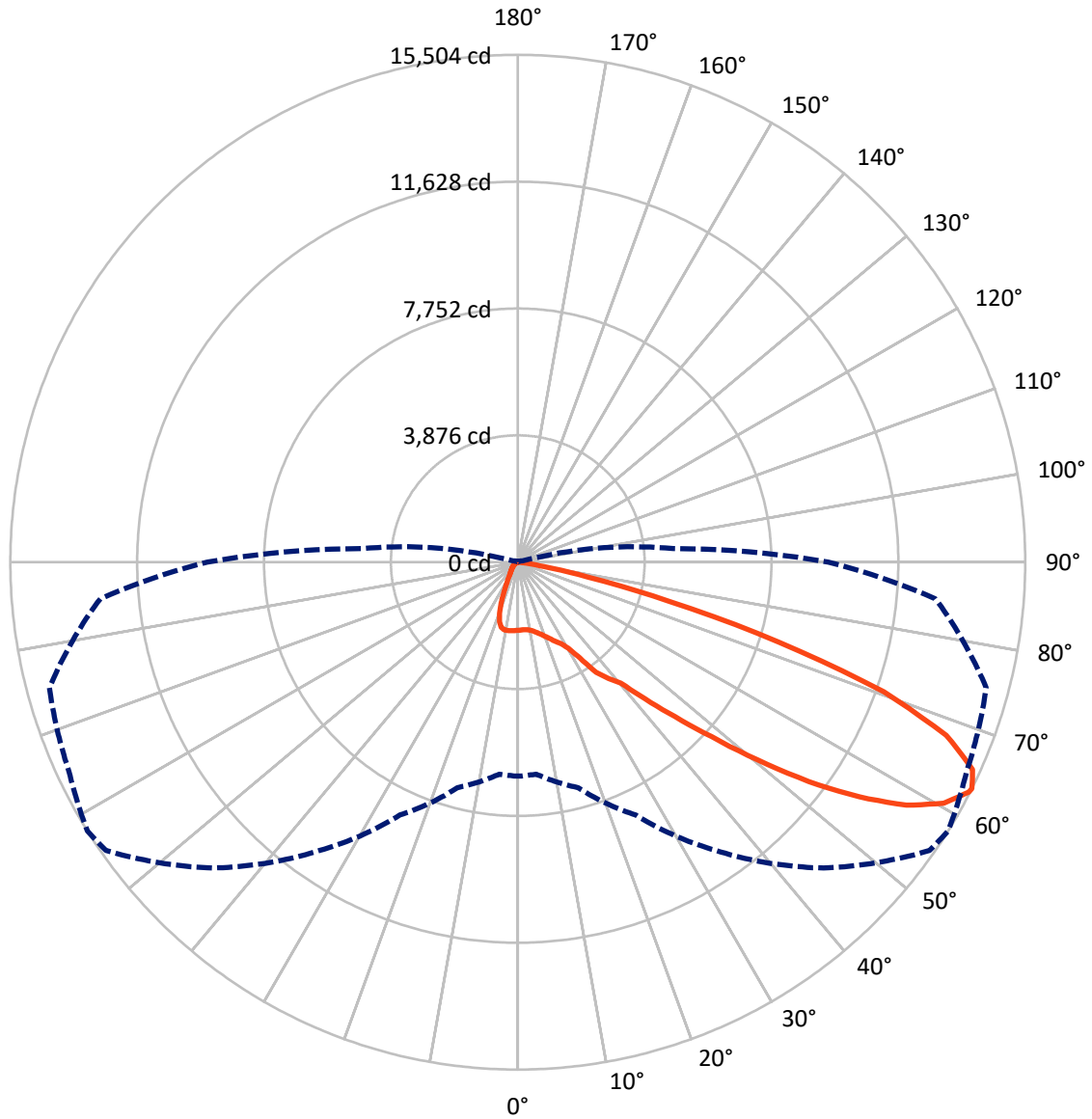
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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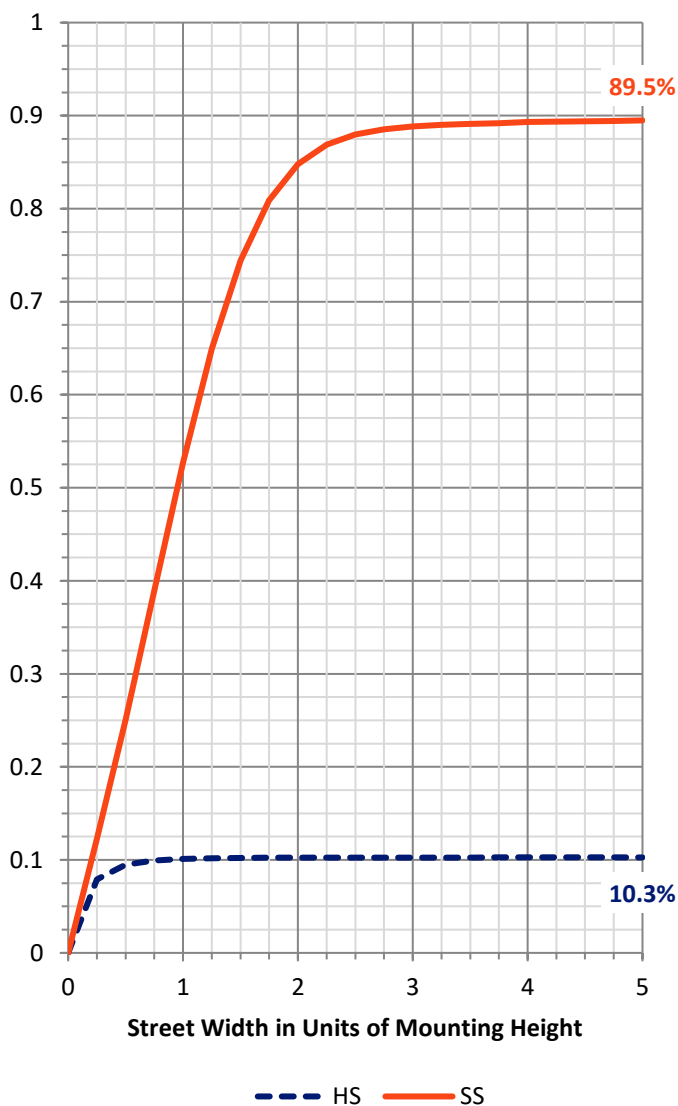
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1925.5	0.0	1925.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	16670.5	0.0	16670.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	18596.0	0.0	18596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.9	1.0
10°-20°	530.8	2.9
20°-30°	921.3	5.0
30°-40°	1692.9	9.1
40°-50°	3186.9	17.1
50°-60°	5450.9	29.3
60°-70°	5219.3	28.1
70°-80°	1330.9	7.2
80°-90°	68.0	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°	18596.0	100.0
0°-180°	18596.0	100.0

Coefficient of Utilization



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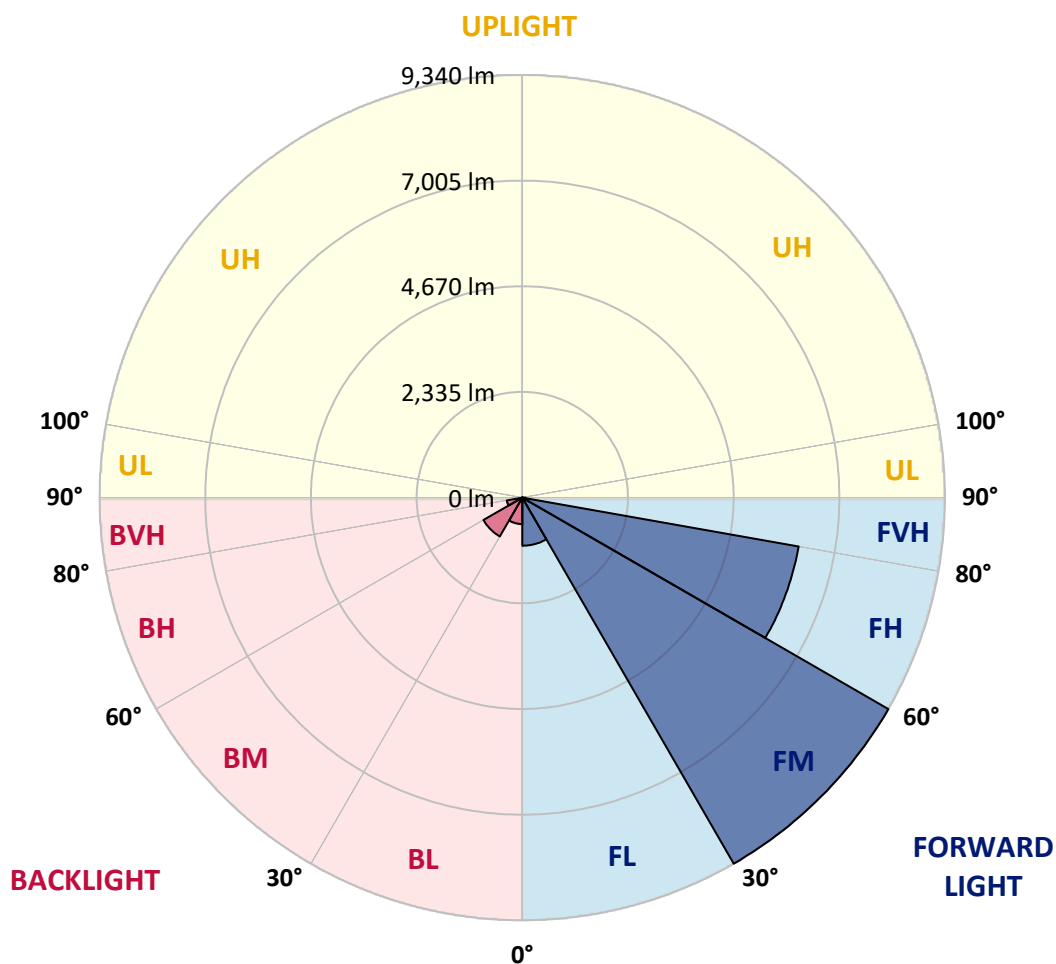
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1063.0	5.7			
FM	(30°-60°)	9340.4	50.2			
FH	(60°-80°)	6201.7	33.3			G3/7500
FVH	(80°-90°)	65.4	0.4			G1/100
BL	(0°-30°)	583.9	3.1	B2/1000		
BM	(30°-60°)	990.4	5.3	B1/1000		
BH	(60°-80°)	348.5	1.9	B1/500		G1/500
BVH	(80°-90°)	2.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9
2.5°	2030.1	2037.1	2044.1	2046.9	2056.7	2066.5	2073.5	2072.1	2083.3	2088.9	2088.9
5°	1948.9	1948.9	1967.1	1983.9	2011.9	2039.9	2066.5	2072.1	2093.1	2112.7	2119.7
7.5°	1880.3	1884.5	1898.5	1929.3	1967.1	2016.1	2069.3	2081.9	2118.3	2161.7	2179.9
10°	1848.1	1850.9	1869.1	1901.3	1948.9	2016.1	2090.3	2114.1	2170.1	2238.7	2263.9
12.5°	1841.1	1845.3	1863.5	1899.9	1954.5	2035.7	2136.5	2161.7	2242.9	2331.1	2368.9
15°	1853.7	1856.5	1874.7	1913.9	1974.1	2070.7	2198.1	2233.1	2329.7	2431.9	2480.9
17.5°	1898.5	1895.7	1908.3	1940.5	2007.7	2114.1	2272.3	2314.3	2427.7	2567.7	2599.9
20°	2088.9	2070.7	2059.5	2031.5	2058.1	2175.7	2361.9	2423.5	2563.5	2706.3	2728.7
22.5°	2499.1	2458.5	2378.7	2269.5	2185.5	2259.7	2469.7	2541.1	2721.7	2861.7	2861.7
25°	3021.3	2969.5	2889.7	2651.7	2445.9	2398.3	2591.5	2681.1	2893.9	3035.3	2989.1
27.5°	3675.2	3634.6	3479.2	3201.9	2886.9	2640.5	2732.9	2815.5	3046.5	3217.3	3120.7
30°	4207.2	4187.6	4060.2	3812.4	3465.2	3105.3	2996.1	3050.7	3249.5	3447.0	3347.6
32.5°	4656.6	4656.6	4526.4	4295.4	3970.6	3651.4	3442.8	3482.0	3672.4	3900.6	3715.8
35°	5150.8	5134.0	5029.0	4809.2	4445.2	4163.8	4078.4	4131.6	4303.8	4473.2	4018.2
37.5°	5670.3	5664.7	5555.5	5342.6	5045.8	4691.6	4491.4	4505.4	4593.6	4697.2	4372.4
40°	6234.5	6242.9	6100.1	5968.5	5688.5	5325.8	4942.2	4854.0	4936.6	5229.2	5026.2
42.5°	6900.9	6881.3	6819.7	6640.5	6415.1	6198.1	5737.5	5705.3	5778.1	6091.7	5871.9
45°	7675.1	7703.1	7596.7	7497.3	7346.1	7165.5	6780.5	6724.5	6804.3	7291.5	6979.3
47.5°	8450.8	8424.2	8492.8	8474.6	8555.8	8421.4	8081.2	7966.4	8158.2	8620.2	8161.0
50°	9041.6	9071.0	9213.8	9422.4	9771.0	9846.6	9520.4	9481.2	9566.6	9863.4	9218.0
52.5°	9425.2	9523.2	9747.2	10283.5	10912.1	11400.7	11152.9	11131.9	11096.9	11176.7	10228.9
55°	9675.8	9775.2	10067.9	10857.5	11939.7	12733.6	12746.2	12656.6	12425.6	12368.2	11173.9
57.5°	9521.8	9541.4	9958.7	11014.3	12509.6	13684.2	14095.8	14006.2	13579.2	13362.2	12008.3
60°	8558.6	8599.2	9180.2	10420.7	12261.8	13995.0	14990.5	14949.9	14482.3	14237.2	12658.0
62.5°	6851.9	6969.5	7567.3	8950.6	11109.5	13471.4	15353.1	15467.9	15103.9	14766.5	12862.4
63°	6538.3	6500.5	7131.9	8522.2	10804.3	13212.4	15358.7	15504.3	15131.9	14816.9	12806.4
65°	4840.0	4953.4	5363.6	6720.3	8991.2	12006.9	15012.9	15270.5	15028.3	14594.3	12186.2
67.5°	2717.5	2711.9	3165.5	4397.6	6293.3	9418.2	13575.0	14119.6	14069.2	13096.2	10101.5
70°	1330.1	1351.1	1537.3	2279.3	3650.0	6497.7	11280.3	11868.3	11886.5	10286.3	6984.9
72.5°	602.0	611.8	744.8	1110.3	1876.1	3459.6	7773.2	8334.6	8231.0	6555.1	3857.2
75°	317.8	338.8	410.2	558.6	904.4	1426.7	4228.2	4771.4	4554.4	2994.7	1419.7
77.5°	235.2	242.2	278.6	355.6	484.4	555.8	1824.3	2170.1	2032.9	1083.6	470.4
80°	172.2	177.8	207.2	252.0	305.2	282.8	687.4	788.2	707.0	368.2	144.2
82.5°	105.0	106.4	151.2	187.6	191.8	158.2	226.8	243.6	254.8	207.2	78.4
85°	37.8	47.6	102.2	135.8	113.4	79.8	95.2	105.0	114.8	131.6	46.2
87.5°	4.2	5.6	49.0	65.8	32.2	29.4	35.0	39.2	42.0	49.0	22.4
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°	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9
2.5°	2094.5	2100.1	2095.9	2088.9	2087.5	2083.3	2074.9	2074.9	2074.9	2077.7	2074.9
5°	2125.3	2129.5	2119.7	2105.7	2090.3	2070.7	2049.7	2037.1	2035.7	2032.9	2025.9
7.5°	2184.1	2189.7	2167.3	2133.7	2091.7	2044.1	1999.3	1957.3	1937.7	1922.3	1922.3
10°	2269.5	2275.1	2230.3	2170.1	2086.1	1989.5	1883.1	1786.5	1710.9	1675.9	1667.5
12.5°	2371.7	2374.5	2300.3	2195.3	2056.7	1870.5	1643.7	1432.3	1285.3	1218.1	1211.1
15°	2483.7	2464.1	2366.1	2205.1	1972.7	1625.5	1233.5	974.4	821.8	777.0	793.8
17.5°	2597.1	2560.7	2416.5	2189.7	1783.7	1233.5	828.8	665.0	617.4	604.8	604.8
20°	2703.5	2653.1	2452.9	2122.5	1456.1	849.8	614.6	575.4	567.0	558.6	560.0
22.5°	2809.9	2732.9	2485.1	1972.7	1085.0	607.6	550.2	537.6	526.4	515.2	513.8
25°	2913.5	2807.1	2497.7	1695.5	739.2	522.2	502.6	485.8	463.4	450.8	448.0
27.5°	3021.3	2896.7	2489.3	1345.5	539.0	467.6	448.0	424.2	397.6	375.2	375.2
30°	3228.5	3067.5	2459.9	967.4	453.6	411.6	386.4	348.6	319.2	296.8	295.4
32.5°	3511.4	3290.1	2359.1	680.4	403.2	362.6	324.8	282.8	252.0	235.2	235.2
35°	3763.4	3514.2	2170.1	501.2	362.6	315.0	268.8	228.2	204.4	193.2	189.0
37.5°	4147.0	3841.8	1909.7	407.4	323.4	273.0	225.4	187.6	168.0	159.6	159.6
40°	4722.4	4242.2	1590.5	357.0	285.6	232.4	187.6	158.2	142.8	133.0	133.0
42.5°	5436.4	4732.2	1267.1	320.6	250.6	200.2	156.8	134.4	120.4	113.4	112.0
45°	6335.3	5248.8	975.8	287.0	222.6	170.8	133.0	113.4	99.4	95.2	96.6
47.5°	7273.3	5703.9	756.0	257.6	193.2	144.2	113.4	98.0	88.2	82.6	82.6
50°	8074.2	6017.5	574.0	224.0	170.8	121.8	99.4	88.2	79.8	77.0	75.6
52.5°	8743.4	6108.5	439.6	194.6	149.8	105.0	88.2	79.8	72.8	68.6	68.6
55°	9313.2	6028.7	344.4	163.8	126.0	91.0	78.4	71.4	63.0	58.8	57.4
57.5°	9646.4	5772.5	263.2	135.8	102.2	75.6	68.6	60.2	50.4	43.4	43.4
60°	9814.4	5400.0	201.6	112.0	78.4	60.2	56.0	44.8	35.0	29.4	28.0
62.5°	9612.8	4905.8	152.6	88.2	58.8	44.8	37.8	32.2	22.4	16.8	16.8
63°	9488.2	4763.0	147.0	84.0	54.6	42.0	35.0	29.4	19.6	15.4	14.0
65°	8649.6	4140.0	120.4	67.2	43.4	29.4	23.8	21.0	14.0	7.0	5.6
67.5°	6868.7	3166.9	95.2	50.4	30.8	21.0	14.0	12.6	4.2	0.0	0.0
70°	4644.0	2045.5	74.2	36.4	21.0	12.6	7.0	5.6	1.4	0.0	0.0
72.5°	2422.1	1048.6	57.4	26.6	12.6	8.4	4.2	1.4	0.0	0.0	0.0
75°	856.8	357.0	42.0	16.8	8.4	4.2	1.4	0.0	0.0	0.0	0.0
77.5°	259.0	133.0	26.6	12.6	5.6	2.8	0.0	0.0	0.0	0.0	0.0
80°	91.0	49.0	15.4	8.4	4.2	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	44.8	23.8	9.8	7.0	4.2	1.4	0.0	0.0	0.0	0.0	0.0
85°	25.2	15.4	8.4	7.0	4.2	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	18.2	11.2	8.4	7.0	5.6	2.8	1.4	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)