

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: P527880

Luminaire Tested: **GALN-SA2D-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10540 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 125
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

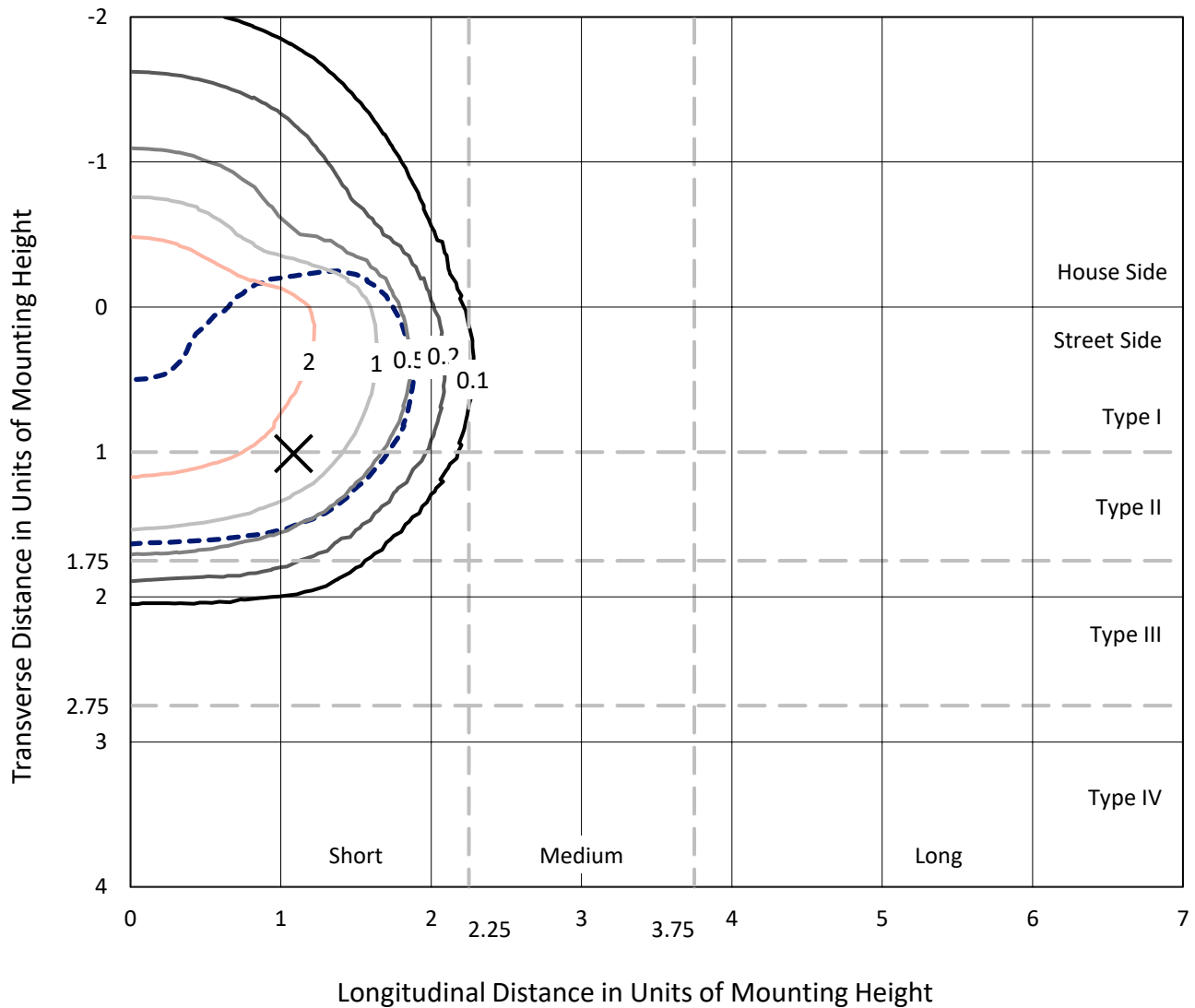


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

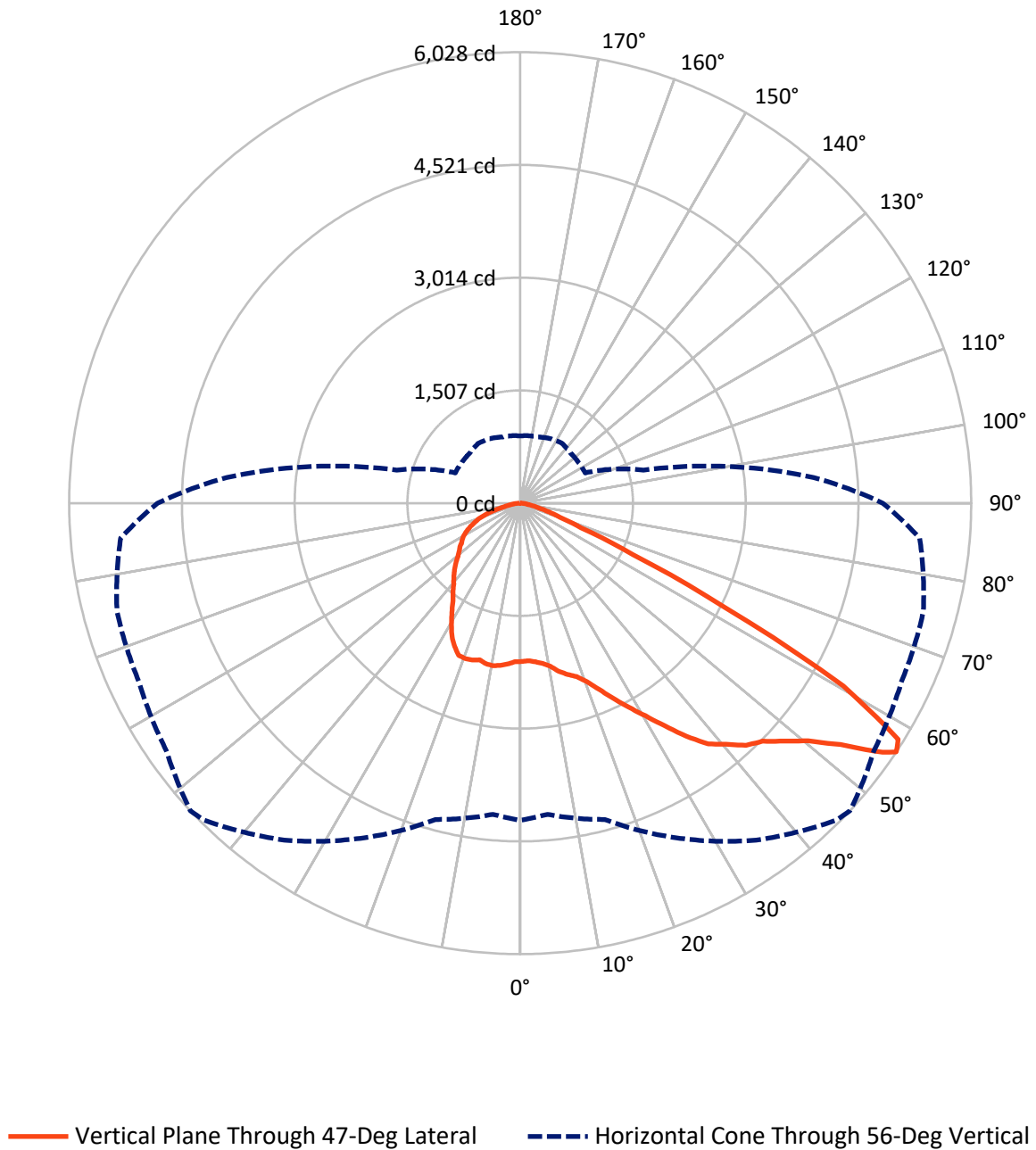


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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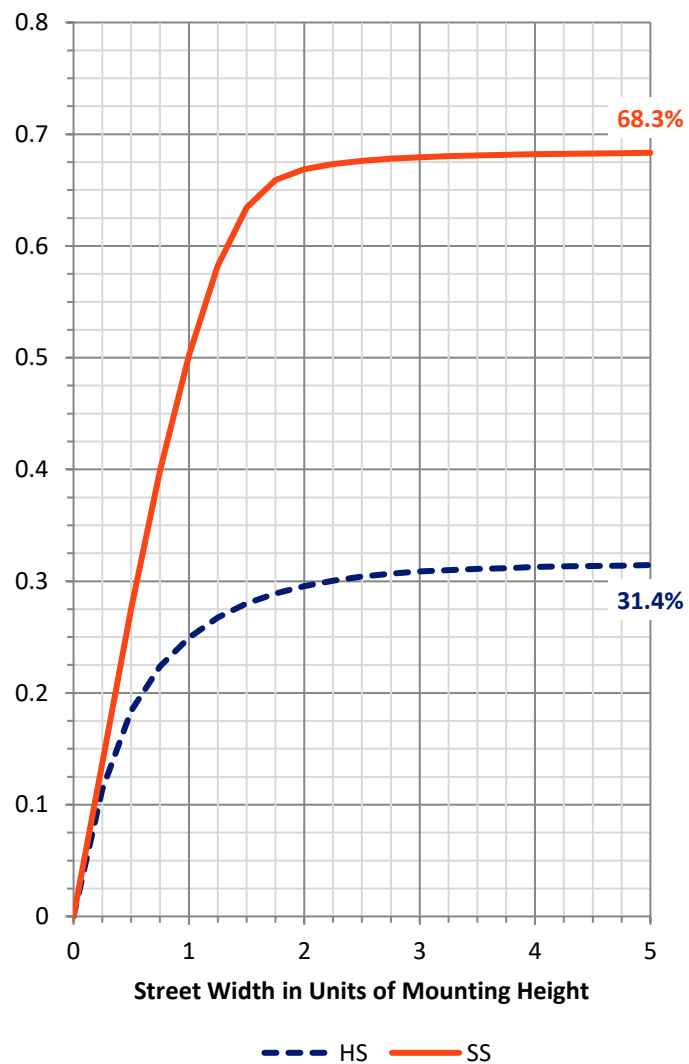
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3340.0	0.0	3340.0
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	7200.0	0.0	7200.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	10540.0	0.0	10540.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.3	2.0
10°-20°	650.7	6.2
20°-30°	1150.4	10.9
30°-40°	1727.8	16.4
40°-50°	2371.2	22.5
50°-60°	2825.0	26.8
60°-70°	1208.9	11.5
70°-80°	342.1	3.2
80°-90°	57.6	0.5
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°	10540.0	100.0
0°-180°	10540.0	100.0

Coefficient of Utilization



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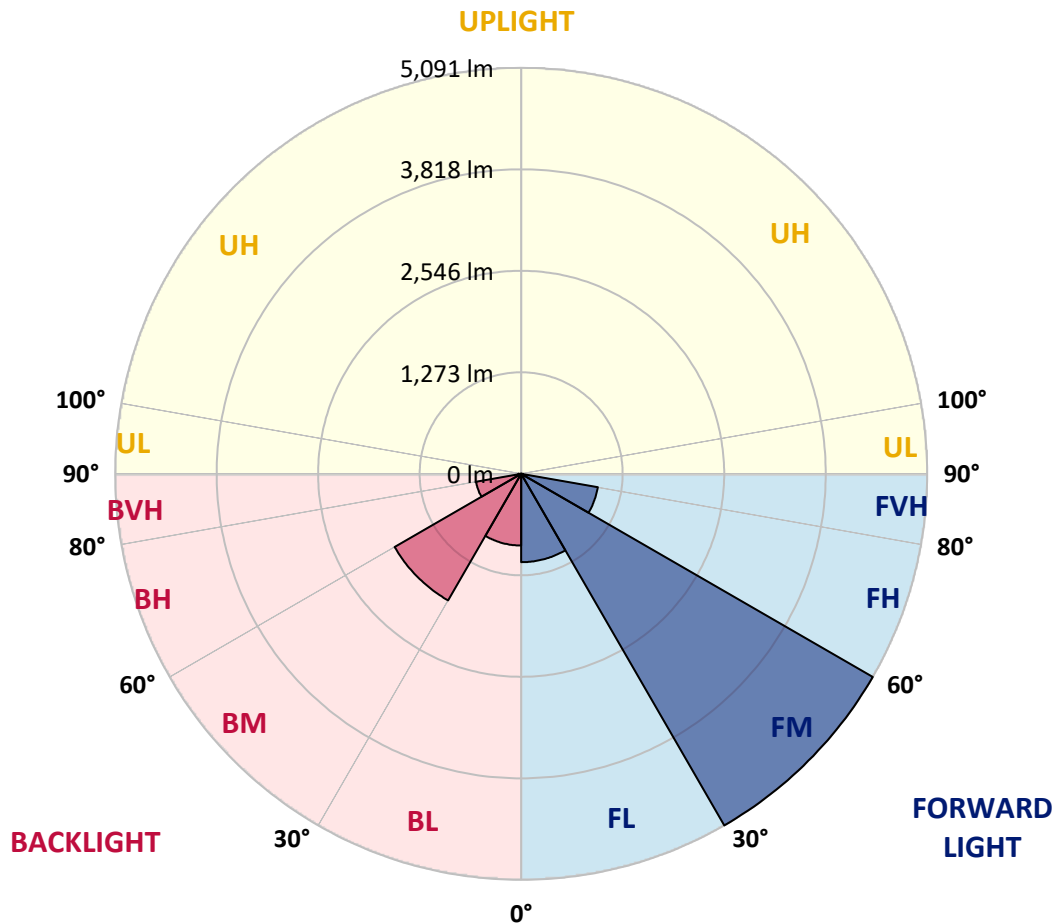
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1108.1	10.5			
FM	(30°-60°)	5091.1	48.3			
FH	(60°-80°)	976.4	9.3			G1/1800
FVH	(80°-90°)	24.4	0.2			G1/100
BL	(0°-30°)	899.3	8.5	B2/1000		
BM	(30°-60°)	1832.9	17.4	B2/2500		
BH	(60°-80°)	574.7	5.5	B2/1000		G2/1000
BVH	(80°-90°)	33.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2117.2	2117.2	2117.2	2117.2	2117.2	2117.2	2117.2	2117.2	2117.2	2117.2	2117.2
2.5°	2109.1	2105.1	2102.4	2123.9	2115.8	2117.2	2109.1	2117.2	2122.5	2110.4	2127.9
5°	2105.1	2117.2	2106.4	2113.1	2130.6	2125.2	2130.6	2146.7	2142.7	2138.7	2133.3
7.5°	2142.7	2144.1	2152.1	2154.8	2160.2	2154.8	2162.9	2177.7	2173.6	2150.8	2153.5
10°	2196.5	2199.2	2200.5	2215.3	2224.7	2226.0	2216.6	2203.2	2201.9	2232.8	2211.3
12.5°	2258.3	2251.6	2267.7	2273.1	2283.9	2295.9	2308.0	2279.8	2297.3	2298.6	2273.1
15°	2348.4	2355.1	2336.3	2336.3	2340.3	2341.7	2375.3	2361.8	2359.1	2344.3	2355.1
17.5°	2482.8	2437.1	2435.7	2416.9	2414.2	2425.0	2437.1	2447.8	2484.1	2454.6	2396.8
20°	2580.9	2591.7	2552.7	2529.8	2533.9	2558.1	2546.0	2594.4	2619.9	2571.5	2515.1
22.5°	2754.3	2718.0	2727.4	2676.4	2680.4	2705.9	2704.6	2754.3	2769.1	2692.5	2610.5
25°	2871.3	2861.9	2869.9	2829.6	2835.0	2855.1	2887.4	2969.4	2945.2	2860.5	2671.0
27.5°	3042.0	3023.2	3016.5	3001.7	2996.3	3050.1	3087.7	3175.1	3157.6	3033.9	2778.5
30°	3216.7	3204.6	3211.4	3150.9	3172.4	3286.6	3297.4	3417.0	3409.0	3191.2	2898.2
32.5°	3337.7	3344.4	3356.5	3322.9	3418.4	3509.8	3546.1	3681.9	3688.6	3461.4	3129.4
35°	3532.6	3509.8	3516.5	3555.5	3599.9	3766.5	3825.7	3915.7	3972.2	3745.0	3351.2
37.5°	3655.0	3679.2	3650.9	3712.8	3828.4	4028.7	4082.4	4175.2	4234.3	4024.6	3653.6
40°	3845.8	3806.9	3827.0	3871.4	3989.7	4250.5	4235.7	4331.1	4349.9	4262.6	3935.9
42.5°	4051.5	4032.7	4004.5	4105.3	4204.8	4394.3	4423.9	4379.5	4474.9	4495.1	4339.2
45°	4297.5	4320.4	4324.4	4327.1	4414.5	4579.8	4539.5	4500.5	4610.7	4757.2	4589.2
47.5°	4526.0	4453.4	4505.9	4578.5	4702.1	4703.5	4750.5	4657.8	4774.7	4905.1	4815.0
50°	4602.7	4567.7	4637.6	4774.7	4965.6	4985.8	4991.1	4859.4	4919.9	5023.4	4893.0
52.5°	4573.1	4561.0	4739.8	4952.2	5231.8	5333.9	5360.8	5198.1	5231.8	5184.7	5065.1
55°	4431.9	4468.2	4648.4	5081.2	5510.0	5825.9	5877.0	5671.3	5457.6	5493.9	5362.1
56°	4238.4	4175.2	4376.8	4934.7	5497.9	5985.9	6027.5	5770.8	5625.6	5578.6	5359.5
57.5°	3595.8	3513.8	3778.6	4440.0	5192.8	5925.4	5956.3	5812.5	5597.4	5501.9	4968.3
60°	2105.1	2145.4	2481.5	3062.2	4005.8	4858.1	4961.6	5066.4	4922.6	4495.1	3698.0
62.5°	1016.2	990.7	1231.3	1755.6	2441.1	3101.1	3070.2	3364.6	3525.9	3193.9	2334.9
65°	532.3	529.6	672.1	958.4	1341.5	1629.2	1657.4	1816.1	2037.9	1645.3	1185.6
67.5°	391.2	401.9	473.2	673.5	863.0	880.5	876.4	955.7	977.3	826.7	728.6
70°	306.5	311.9	364.3	512.2	642.5	575.3	563.2	572.6	635.8	662.7	630.4
72.5°	221.8	227.2	271.5	345.5	401.9	392.5	400.6	453.0	531.0	559.2	525.6
75°	147.9	151.9	176.1	211.0	237.9	256.7	271.5	332.0	404.6	420.7	404.6
77.5°	102.2	106.2	122.3	149.2	151.9	164.0	169.4	197.6	242.0	262.1	251.4
80°	57.8	57.8	65.9	76.6	94.1	110.2	112.9	135.8	155.9	169.4	172.1
82.5°	26.9	28.2	35.0	47.0	61.8	76.6	79.3	94.1	108.9	122.3	126.4
85°	13.4	14.8	20.2	28.2	37.6	45.7	44.4	45.7	48.4	45.7	47.0
87.5°	4.0	4.0	5.4	6.7	5.4	6.7	6.7	8.1	9.4	10.8	12.1
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°	2117.2	2117.2	2117.2	2117.2	2117.2	2117.2	2117.2	2117.2	2117.2	2117.2	2117.2
2.5°	2129.3	2133.3	2106.4	2132.0	2122.5	2121.2	2140.0	2137.3	2144.1	2141.4	2125.2
5°	2130.6	2121.2	2149.4	2123.9	2136.0	2161.5	2144.1	2184.4	2164.2	2177.7	2148.1
7.5°	2172.3	2175.0	2169.6	2180.3	2175.0	2187.1	2177.7	2187.1	2170.9	2172.3	2199.2
10°	2208.6	2200.5	2209.9	2196.5	2205.9	2201.9	2180.3	2173.6	2179.0	2172.3	2189.8
12.5°	2275.8	2261.0	2254.3	2238.1	2227.4	2187.1	2153.5	2134.6	2160.2	2164.2	2156.1
15°	2344.3	2345.7	2314.8	2278.5	2211.3	2150.8	2158.8	2165.6	2165.6	2176.3	2156.1
17.5°	2387.4	2387.4	2359.1	2286.5	2218.0	2183.0	2175.0	2153.5	2134.6	2132.0	2130.6
20°	2462.6	2439.8	2375.3	2285.2	2215.3	2199.2	2138.7	2087.6	2048.6	2035.2	2033.8
22.5°	2548.7	2490.9	2400.8	2287.9	2211.3	2188.4	2075.5	1998.9	1929.0	1899.4	1903.4
25°	2628.0	2535.2	2415.6	2275.8	2196.5	2086.2	1959.9	1853.7	1781.1	1756.9	1744.8
27.5°	2683.1	2582.3	2415.6	2286.5	2141.4	1972.0	1842.9	1707.2	1644.0	1627.9	1630.6
30°	2757.0	2641.4	2457.3	2263.7	2031.1	1824.1	1669.5	1580.8	1543.2	1529.7	1539.1
32.5°	2930.4	2796.0	2515.1	2208.6	1900.7	1676.3	1551.2	1501.5	1446.4	1419.5	1410.1
35°	3118.6	2942.5	2571.5	2115.8	1754.2	1541.8	1463.9	1418.2	1352.3	1322.7	1328.1
37.5°	3384.8	3130.7	2575.5	1962.6	1595.6	1466.6	1395.3	1324.1	1270.3	1224.6	1211.2
40°	3743.7	3387.5	2566.1	1801.3	1467.9	1377.8	1325.4	1236.7	1176.2	1143.9	1150.7
42.5°	4059.6	3688.6	2527.2	1618.5	1352.3	1317.3	1258.2	1170.8	1111.7	1078.1	1075.4
45°	4325.7	3910.4	2453.2	1462.5	1255.5	1250.1	1181.6	1114.4	1067.3	1036.4	1049.8
47.5°	4571.7	4089.2	2341.7	1306.6	1166.8	1177.5	1111.7	1070.0	1040.4	1012.2	1010.9
50°	4660.5	4086.5	2243.5	1177.5	1095.5	1090.2	1087.5	1043.1	1012.2	988.0	998.8
52.5°	4808.3	4132.2	2137.3	1088.8	1031.0	1032.4	1041.8	1009.5	974.6	959.8	973.2
55°	5020.7	4138.9	1903.4	985.3	977.3	986.7	986.7	965.2	935.6	923.5	916.8
56°	4847.3	3938.6	1707.2	958.4	950.4	950.4	975.9	951.7	915.4	906.0	897.9
57.5°	4470.9	3450.6	1428.9	926.2	914.1	932.9	946.3	920.8	887.2	873.8	881.8
60°	3083.7	2334.9	1074.0	856.3	856.3	887.2	897.9	860.3	845.5	844.2	833.4
62.5°	1799.9	1360.4	840.1	793.1	795.8	821.3	829.4	807.9	789.1	811.9	822.7
65°	954.4	811.9	720.5	725.9	727.2	747.4	782.3	781.0	779.7	786.4	787.7
67.5°	690.9	674.8	654.6	649.3	652.0	666.7	701.7	728.6	727.2	711.1	699.0
70°	615.7	592.8	580.7	582.1	571.3	588.8	617.0	634.5	603.6	584.7	576.7
72.5°	512.2	505.4	497.4	498.7	477.2	473.2	440.9	440.9	432.8	427.5	436.9
75°	391.2	388.5	392.5	385.8	362.9	338.7	319.9	302.5	275.6	264.8	259.4
77.5°	247.3	255.4	264.8	250.0	240.6	223.1	204.3	186.8	165.3	153.2	153.2
80°	168.0	174.8	181.5	178.8	168.0	151.9	137.1	118.3	103.5	94.1	92.8
82.5°	127.7	133.1	142.5	131.7	121.0	107.5	95.4	82.0	68.6	57.8	57.8
85°	45.7	52.4	57.8	63.2	67.2	68.6	59.1	48.4	39.0	30.9	29.6
87.5°	12.1	13.4	14.8	13.4	13.4	13.4	14.8	13.4	12.1	9.4	9.4
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)