

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: P529283

Luminaire Tested: **GALN-SA4B-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10682 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

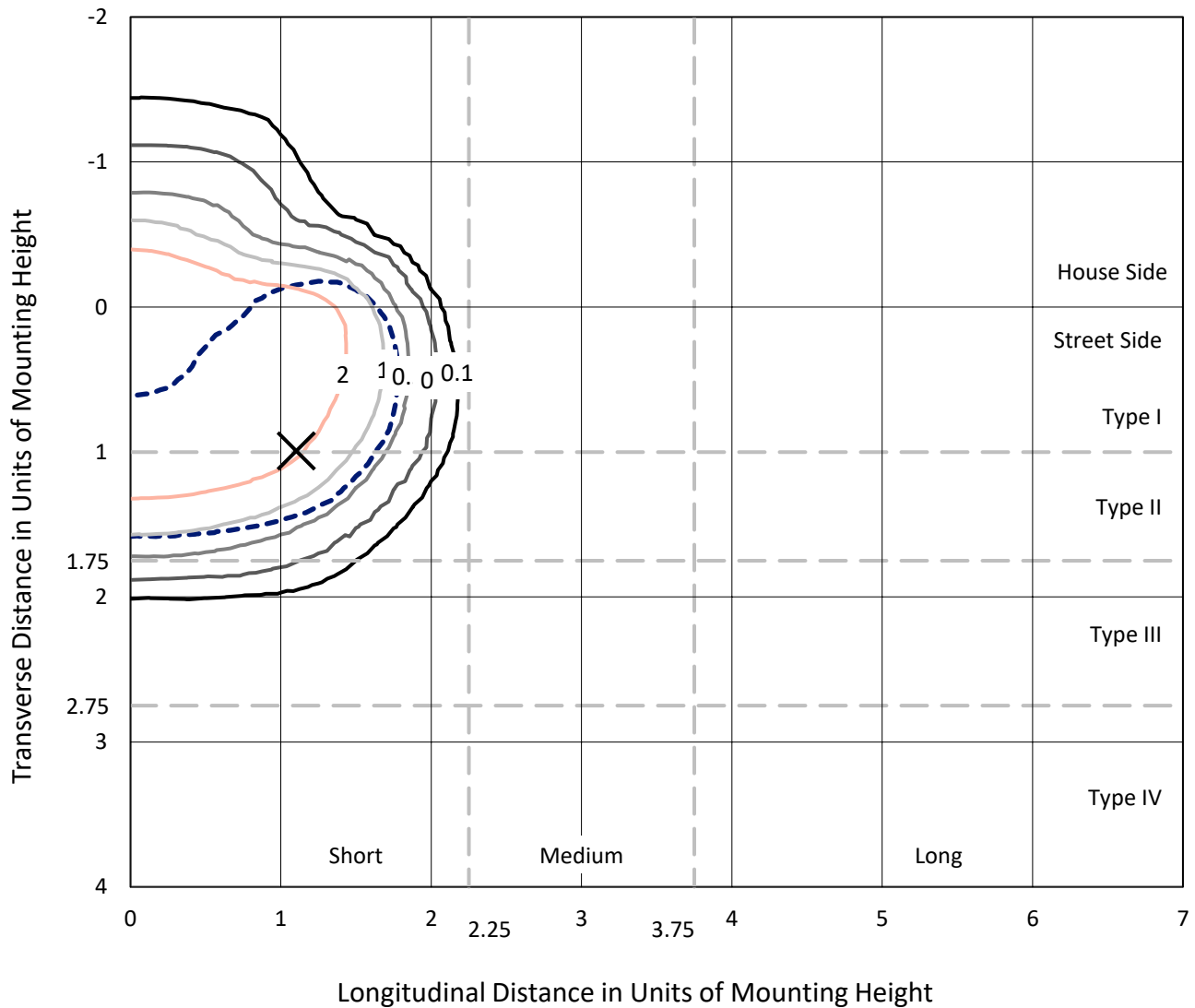
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

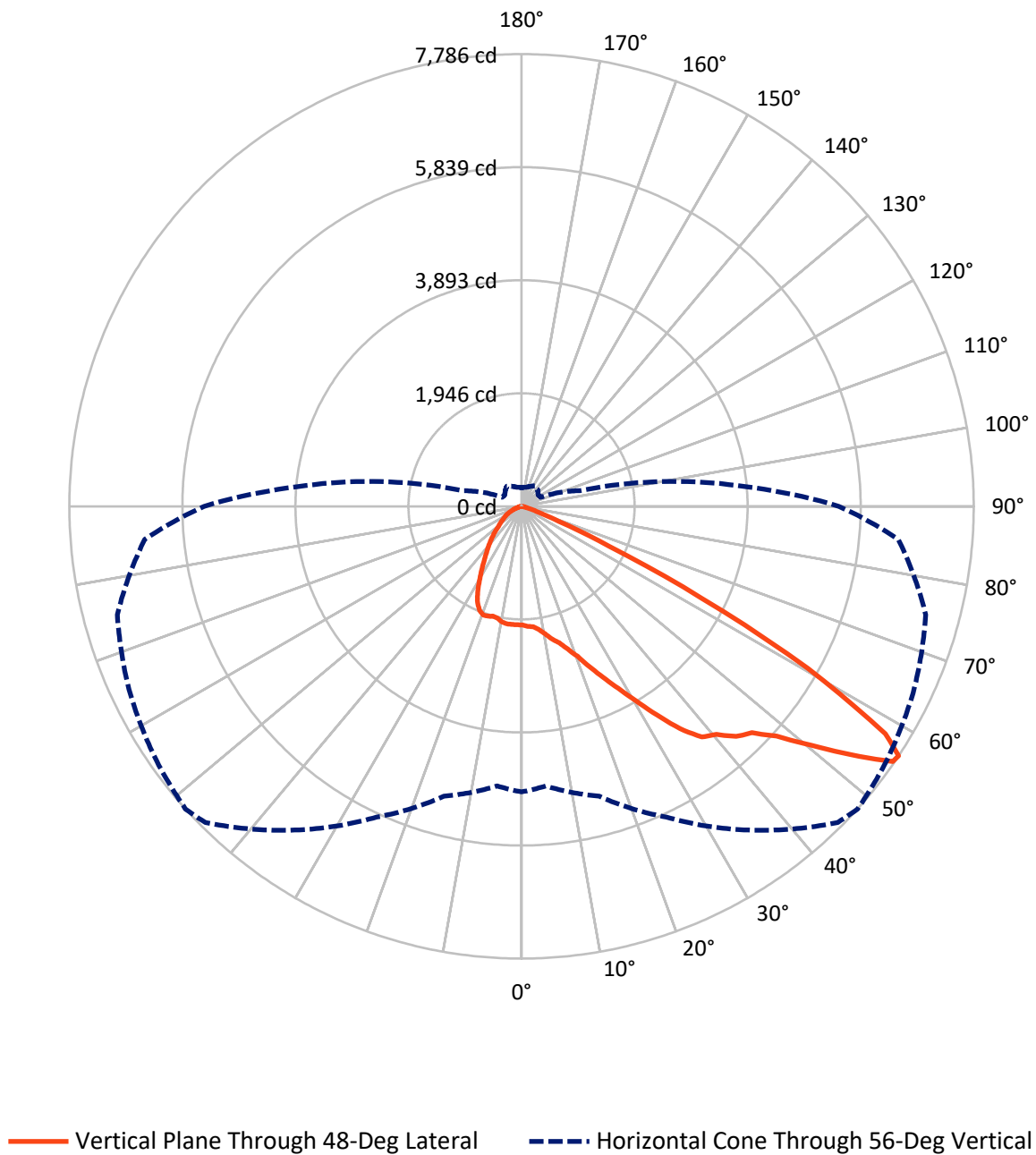
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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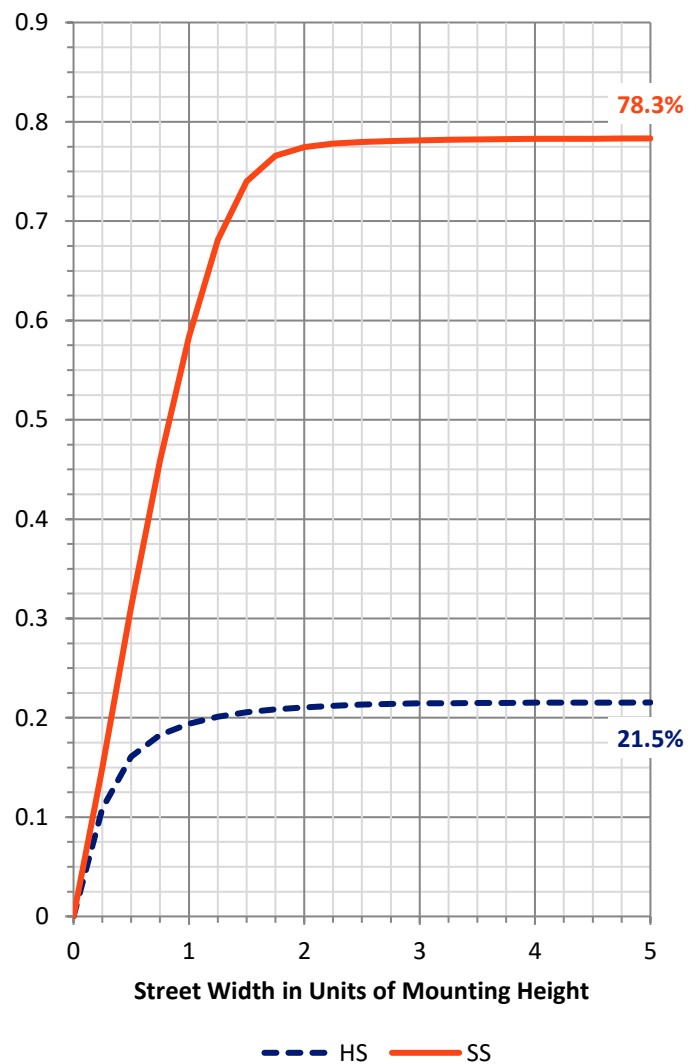
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2323.1	0.0	2323.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8358.9	0.0	8358.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	10682.0	0.0	10682.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.7	1.9
10°-20°	635.2	5.9
20°-30°	1152.0	10.8
30°-40°	1809.6	16.9
40°-50°	2639.9	24.7
50°-60°	3180.6	29.8
60°-70°	931.2	8.7
70°-80°	118.1	1.1
80°-90°	16.5	0.2
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°	10682.0	100.0
0°-180°	10682.0	100.0

Coefficient of Utilization



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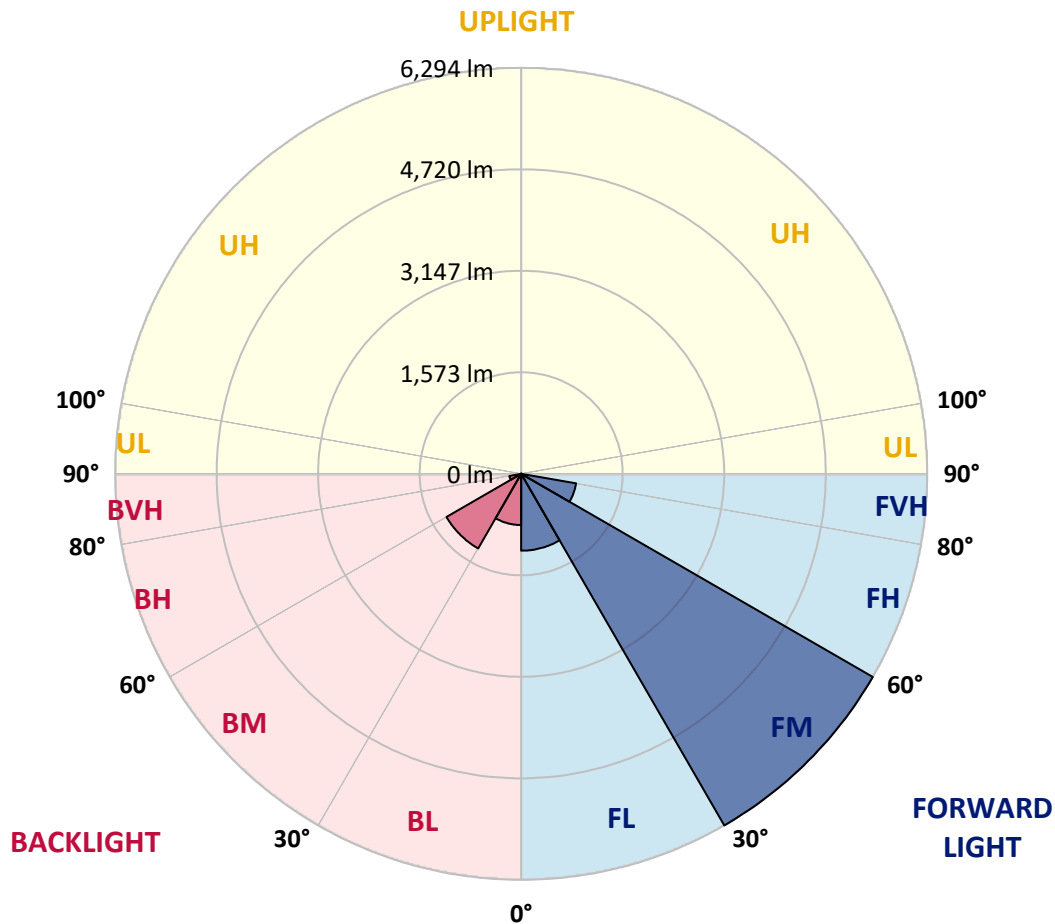
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1191.9	11.2			
FM	(30°-60°)	6293.9	58.9			
FH	(60°-80°)	864.8	8.1			G1/1800
FVH	(80°-90°)	8.3	0.1			G0/10
BL	(0°-30°)	794.0	7.4	B2/1000		
BM	(30°-60°)	1336.3	12.5	B2/2500		
BH	(60°-80°)	184.6	1.7	B1/500		G1/500
BVH	(80°-90°)	8.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3
2.5°	2077.2	2067.5	2067.5	2051.9	2069.4	2061.7	2067.5	2048.0	2067.5	2038.3	2061.7
5°	2086.9	2088.9	2081.1	2090.8	2090.8	2102.5	2083.1	2100.6	2110.3	2088.9	2079.2
7.5°	2137.5	2141.4	2139.5	2131.7	2147.2	2145.3	2143.3	2129.7	2133.6	2125.8	2114.2
10°	2236.7	2234.8	2244.5	2225.0	2213.4	2227.0	2230.9	2209.5	2193.9	2188.1	2151.1
12.5°	2380.6	2357.3	2343.7	2324.2	2330.1	2310.6	2345.6	2308.7	2300.9	2265.9	2228.9
15°	2497.3	2493.4	2495.4	2464.3	2429.3	2437.0	2437.0	2417.6	2405.9	2363.1	2310.6
17.5°	2736.6	2654.9	2672.4	2633.5	2604.3	2602.4	2584.9	2588.7	2557.6	2468.2	2388.4
20°	2923.3	2888.3	2861.0	2794.9	2750.2	2763.8	2756.0	2736.6	2726.8	2610.1	2497.3
22.5°	3090.5	3102.2	3057.5	3040.0	2977.7	2983.6	2999.1	2981.6	2907.7	2787.1	2619.9
25°	3325.9	3312.3	3252.0	3230.6	3172.2	3193.6	3253.9	3240.3	3193.6	2975.8	2715.2
27.5°	3604.0	3557.3	3569.0	3471.8	3415.4	3475.6	3547.6	3615.7	3483.4	3197.5	2828.0
30°	3800.5	3751.8	3747.9	3744.1	3730.4	3800.5	3884.1	3946.3	3839.4	3419.2	3014.7
32.5°	3897.7	3909.4	3942.4	3930.8	4049.4	4193.3	4280.9	4370.3	4236.1	3781.0	3261.7
35°	4156.4	4082.5	4156.4	4164.2	4286.7	4592.1	4702.9	4916.9	4883.8	4292.5	3563.2
37.5°	4308.1	4302.3	4312.0	4385.9	4504.5	4881.9	5039.4	5204.7	5142.5	4599.8	3938.6
40°	4559.0	4574.6	4572.6	4629.0	4759.3	5099.7	5163.9	5298.1	5303.9	5025.8	4490.9
42.5°	4961.6	4899.4	4858.5	4916.9	5099.7	5288.4	5416.7	5389.5	5582.0	5543.1	5200.8
45°	5323.4	5360.3	5300.0	5397.3	5463.4	5564.5	5560.7	5619.0	5864.1	6048.8	5735.7
47.5°	5661.8	5685.1	5714.3	5780.4	5924.4	5939.9	5906.9	5881.6	6220.0	6410.6	6150.0
50°	5864.1	5885.5	6021.6	6140.2	6408.7	6443.7	6463.1	6398.9	6628.4	6649.8	6540.9
52.5°	5809.6	5832.9	6023.6	6414.5	6842.4	7163.3	7105.0	6996.0	6982.4	7066.1	6902.7
55°	5327.3	5305.9	5568.4	6177.2	6978.5	7748.7	7756.5	7641.8	7422.0	7365.6	6848.2
56°	4916.9	4833.2	5167.8	5903.0	6803.5	7698.2	7785.7	7663.2	7457.0	7204.1	6511.7
57.5°	4028.0	4107.8	4440.4	5049.1	6198.6	7334.5	7385.0	7355.9	7200.3	6776.3	5729.9
60°	2221.1	2361.2	2654.9	3399.8	4413.1	5628.7	5669.6	5906.9	5936.0	5189.2	3942.4
62.5°	943.3	927.7	1233.1	1781.6	2512.9	3397.9	3473.7	3716.8	3761.6	2991.4	1978.0
65°	383.2	404.6	558.2	896.6	1328.4	1548.2	1655.2	1734.9	1882.7	1235.1	729.4
67.5°	252.8	250.9	328.7	511.5	715.7	690.5	690.5	729.4	674.9	503.7	315.1
70°	180.9	186.7	235.3	354.0	445.4	330.6	317.0	303.4	344.3	332.6	254.8
72.5°	118.6	126.4	157.5	212.0	231.5	180.9	180.9	217.8	284.0	268.4	208.1
75°	77.8	79.7	97.2	122.5	114.8	93.4	103.1	145.9	206.2	198.4	147.8
77.5°	52.5	54.5	66.1	79.7	64.2	52.5	56.4	73.9	101.1	101.1	77.8
80°	19.4	21.4	27.2	25.3	29.2	37.0	40.8	50.6	60.3	60.3	52.5
82.5°	0.0	1.9	5.8	13.6	21.4	29.2	33.1	38.9	44.7	50.6	48.6
85°	0.0	1.9	5.8	9.7	15.6	17.5	19.4	13.6	11.7	11.7	9.7
87.5°	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	3.9	1.9	1.9
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°	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3
2.5°	2040.3	2038.3	2038.3	2032.5	2044.2	2038.3	2042.2	2040.3	2015.0	2034.4	2020.8
5°	2061.7	2075.3	2053.9	2050.0	2034.4	2040.3	2040.3	2020.8	2038.3	2036.4	2032.5
7.5°	2116.1	2092.8	2069.4	2046.1	2042.2	2036.4	2015.0	2007.2	2020.8	2005.3	2028.6
10°	2139.5	2143.3	2108.3	2077.2	2048.0	2007.2	1978.0	1960.5	1939.1	1962.5	1976.1
12.5°	2246.4	2207.5	2147.2	2098.6	1999.4	1958.6	1929.4	1921.6	1958.6	1966.4	1952.7
15°	2283.4	2277.6	2199.8	2090.8	1987.8	1939.1	1945.0	1929.4	1933.3	1913.8	1917.7
17.5°	2359.2	2293.1	2201.7	2065.6	1985.8	1974.1	1939.1	1876.9	1841.9	1826.3	1839.9
20°	2442.9	2378.7	2246.4	2075.3	2003.3	1972.2	1857.4	1781.6	1709.6	1670.7	1672.7
22.5°	2516.8	2437.0	2227.0	2079.2	2018.9	1890.5	1752.4	1602.6	1513.2	1452.9	1454.8
25°	2606.3	2493.4	2234.8	2086.9	1978.0	1760.2	1561.8	1415.9	1309.0	1268.1	1281.7
27.5°	2656.8	2528.5	2277.6	2104.5	1871.1	1575.4	1361.5	1225.3	1163.1	1143.6	1141.7
30°	2808.5	2606.3	2330.1	2069.4	1692.1	1377.0	1178.6	1095.0	1034.7	1017.2	1021.1
32.5°	3034.1	2748.2	2398.1	1978.0	1509.3	1200.0	1060.0	997.8	941.4	908.3	904.4
35°	3222.8	2991.4	2470.1	1836.0	1297.3	1063.9	976.4	898.6	813.0	776.0	766.3
37.5°	3582.6	3265.6	2454.5	1622.1	1095.0	962.8	886.9	791.6	717.7	667.1	661.3
40°	4061.1	3586.5	2378.7	1361.5	945.3	873.3	791.6	700.2	608.8	566.0	562.1
42.5°	4642.6	3979.4	2240.6	1097.0	795.5	783.8	709.9	604.9	523.2	492.1	494.0
45°	5115.3	4315.9	2100.6	881.1	684.6	696.3	632.1	532.9	476.5	451.2	451.2
47.5°	5535.4	4543.4	1948.9	727.4	581.5	608.8	552.4	494.0	445.4	425.9	422.1
50°	5939.9	4774.9	1797.1	589.3	496.0	523.2	517.4	470.7	431.8	408.4	410.4
52.5°	6192.8	4811.8	1604.6	482.4	433.7	464.8	484.3	441.5	398.7	385.1	381.2
55°	5883.5	4335.3	1244.8	396.8	367.6	408.4	445.4	396.8	363.7	340.4	338.4
56°	5467.3	3876.3	1040.6	365.7	348.1	392.9	431.8	379.3	342.3	328.7	319.0
57.5°	4629.0	3172.2	768.3	324.8	322.9	365.7	410.4	361.8	319.0	307.3	307.3
60°	2886.3	1785.5	464.8	272.3	280.1	324.8	369.5	322.9	284.0	284.0	289.8
62.5°	1314.8	743.0	282.0	231.5	241.2	280.1	328.7	291.7	270.3	291.7	295.6
65°	447.3	320.9	204.2	184.8	190.6	231.5	282.0	295.6	293.7	307.3	315.1
67.5°	250.9	206.2	171.2	153.7	149.8	171.2	231.5	295.6	284.0	278.1	282.0
70°	212.0	175.0	151.7	136.1	130.3	138.1	178.9	223.7	200.3	194.5	190.6
72.5°	171.2	145.9	132.3	122.5	105.0	89.5	81.7	85.6	95.3	101.1	110.9
75°	120.6	110.9	110.9	99.2	75.9	56.4	44.7	37.0	25.3	17.5	19.4
77.5°	68.1	68.1	70.0	60.3	48.6	37.0	27.2	19.4	9.7	3.9	1.9
80°	46.7	50.6	54.5	48.6	40.8	33.1	23.3	13.6	5.8	0.0	0.0
82.5°	46.7	52.5	56.4	48.6	40.8	31.1	23.3	13.6	5.8	1.9	0.0
85°	9.7	11.7	13.6	15.6	23.3	23.3	17.5	11.7	5.8	1.9	0.0
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	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)