

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: P652356

Luminaire Tested: **GALN-SA4B-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652356
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-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 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: 11304.7 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

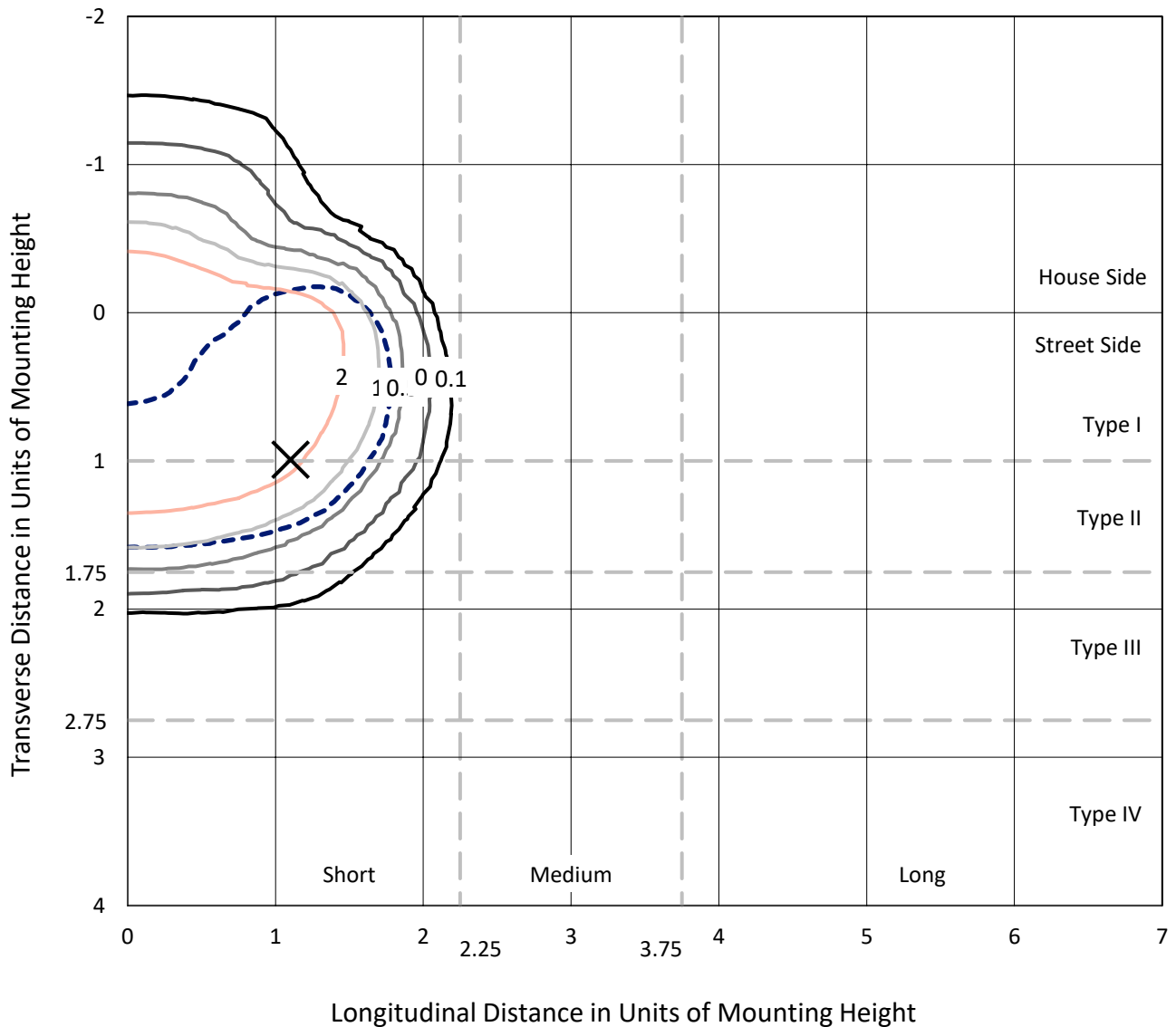
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

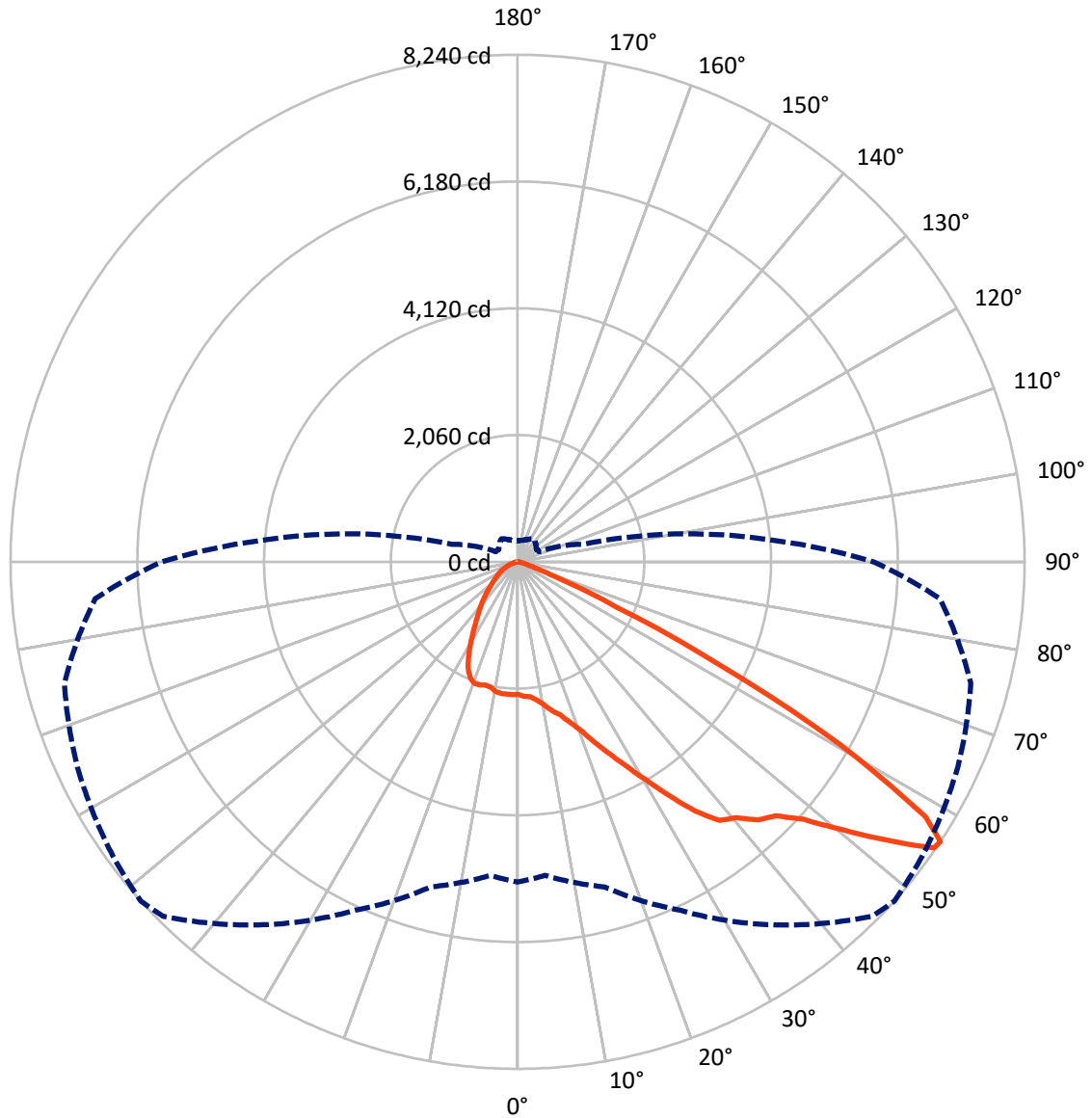
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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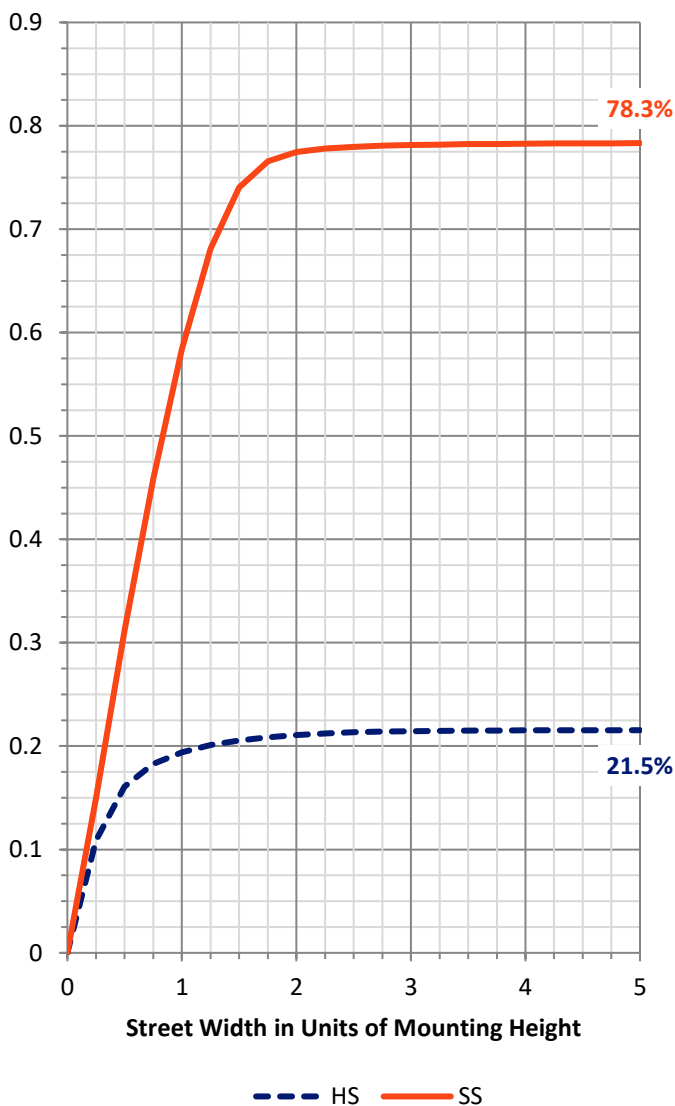
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2458.6	0.0	2458.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8846.1	0.0	8846.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	11304.7	0.0	11304.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.3	1.9
10°-20°	672.2	5.9
20°-30°	1219.2	10.8
30°-40°	1915.1	16.9
40°-50°	2793.8	24.7
50°-60°	3366.0	29.8
60°-70°	985.5	8.7
70°-80°	125.0	1.1
80°-90°	17.5	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°	11304.7	100.0
0°-180°	11304.7	100.0

Coefficient of Utilization



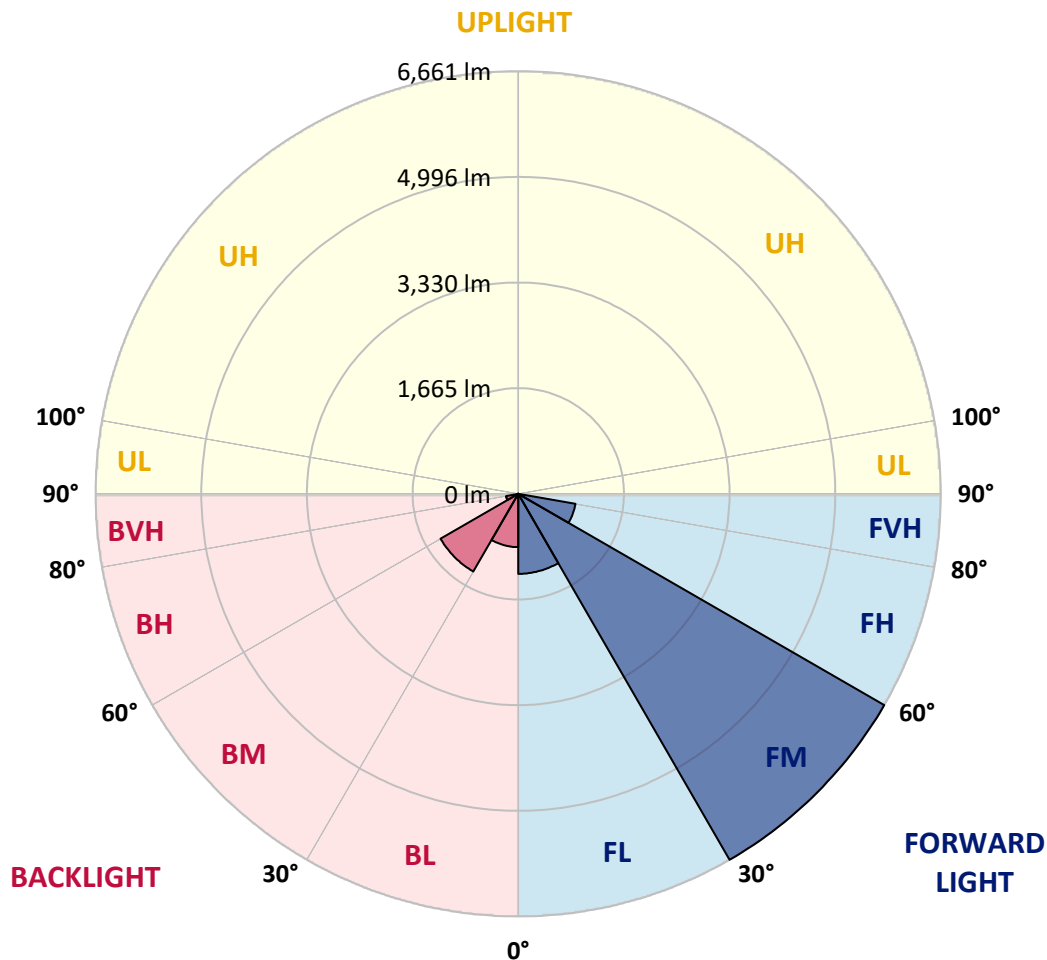
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1261.4	11.2			
FM (30°-60°)	6660.8	58.9			
FH (60°-80°)	915.2	8.1			G1/1800
FVH (80°-90°)	8.8	0.1			G0/10
BL (0°-30°)	840.3	7.4	B2/1000		
BM (30°-60°)	1414.2	12.5	B2/2500		
BH (60°-80°)	195.4	1.7	B1/500		G1/500
BVH (80°-90°)	8.7	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°	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2
2.5°	2198.3	2188.0	2188.0	2171.5	2190.0	2181.9	2188.0	2167.4	2188.0	2157.2	2181.9
5°	2208.6	2210.7	2202.4	2212.8	2212.8	2225.0	2204.5	2223.0	2233.3	2210.7	2200.4
7.5°	2262.1	2266.2	2264.2	2256.0	2272.4	2270.4	2268.3	2253.9	2258.0	2249.8	2237.4
10°	2367.1	2365.1	2375.3	2354.7	2342.4	2356.8	2360.9	2338.3	2321.8	2315.6	2276.5
12.5°	2519.4	2494.7	2480.3	2459.8	2465.9	2445.3	2482.4	2443.3	2435.0	2397.9	2358.8
15°	2642.9	2638.8	2640.8	2607.9	2570.9	2579.1	2579.1	2558.5	2546.2	2500.9	2445.3
17.5°	2896.1	2809.6	2828.2	2787.0	2756.1	2754.1	2735.5	2739.6	2706.8	2612.1	2527.6
20°	3093.7	3056.6	3027.9	2957.9	2910.5	2924.9	2916.7	2896.1	2885.8	2762.3	2642.9
22.5°	3270.7	3283.1	3235.7	3217.2	3151.3	3157.5	3173.9	3155.4	3077.2	2949.6	2772.6
25°	3519.8	3505.4	3441.5	3418.9	3357.2	3379.8	3443.6	3429.2	3379.8	3149.3	2873.4
27.5°	3814.1	3764.7	3777.1	3674.2	3614.4	3678.3	3754.4	3826.5	3686.5	3383.9	2992.9
30°	4022.0	3970.5	3966.4	3962.3	3947.9	4022.0	4110.6	4176.4	4063.2	3618.6	3190.4
32.5°	4124.9	4137.3	4172.3	4159.9	4285.5	4437.8	4530.4	4625.1	4483.1	4001.4	3451.9
35°	4398.7	4320.5	4398.7	4406.9	4536.6	4859.7	4977.1	5203.5	5168.5	4542.7	3770.9
37.5°	4559.2	4553.1	4563.4	4641.6	4767.1	5166.4	5333.2	5508.1	5442.3	4868.0	4168.2
40°	4824.7	4841.2	4839.2	4898.9	5036.7	5396.9	5464.9	5606.9	5613.1	5318.7	4752.7
42.5°	5250.9	5185.0	5141.8	5203.5	5396.9	5596.7	5732.5	5703.7	5907.4	5866.3	5504.0
45°	5633.7	5672.8	5609.0	5711.9	5781.9	5888.9	5884.8	5946.5	6205.9	6401.4	6070.1
47.5°	5991.9	6016.5	6047.5	6117.4	6269.7	6286.2	6251.2	6224.4	6582.6	6784.3	6508.5
50°	6205.9	6228.5	6372.7	6498.2	6782.2	6819.3	6839.9	6772.0	7014.9	7037.5	6922.2
52.5°	6148.3	6173.0	6374.7	6788.5	7241.3	7580.9	7519.1	7403.9	7389.4	7478.0	7305.1
55°	5637.8	5615.2	5893.1	6537.3	7385.3	8200.4	8208.7	8087.2	7854.7	7795.0	7247.4
56°	5203.5	5115.0	5469.0	6247.1	7200.1	8146.9	8239.5	8109.9	7891.7	7624.1	6891.3
57.5°	4262.9	4347.2	4699.2	5343.5	6560.0	7762.0	7815.6	7784.6	7620.0	7171.3	6063.9
60°	2350.6	2498.9	2809.6	3598.0	4670.4	5956.9	6000.1	6251.2	6282.1	5491.6	4172.3
62.5°	998.3	981.9	1305.0	1885.4	2659.4	3595.9	3676.2	3933.5	3980.9	3165.8	2093.3
65°	405.5	428.2	590.7	948.9	1405.8	1638.4	1751.6	1836.1	1992.5	1307.1	771.9
67.5°	267.6	265.5	347.8	541.4	757.5	730.7	730.7	771.9	714.3	533.1	333.5
70°	191.4	197.6	249.0	374.6	471.4	349.9	335.5	321.1	364.3	352.0	269.6
72.5°	125.6	133.8	166.7	224.4	245.0	191.4	191.4	230.5	300.5	284.1	220.3
75°	82.3	84.4	102.9	129.7	121.4	98.8	109.1	154.4	218.2	209.9	156.4
77.5°	55.6	57.6	70.0	84.4	68.0	55.6	59.7	78.2	107.1	107.1	82.3
80°	20.6	22.6	28.8	26.7	30.9	39.1	43.2	53.5	63.8	63.8	55.6
82.5°	0.0	2.0	6.1	14.4	22.6	30.9	35.0	41.2	47.3	53.5	51.5
85°	0.0	2.0	6.1	10.3	16.5	18.5	20.6	14.4	12.4	12.4	10.3
87.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	2.0	2.0
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°	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2
2.5°	2159.2	2157.2	2157.2	2150.9	2163.3	2157.2	2161.3	2159.2	2132.4	2153.0	2138.7
5°	2181.9	2196.3	2173.6	2169.5	2153.0	2159.2	2159.2	2138.7	2157.2	2155.1	2150.9
7.5°	2239.5	2214.8	2190.0	2165.4	2161.3	2155.1	2132.4	2124.2	2138.7	2122.2	2146.8
10°	2264.2	2268.3	2231.3	2198.3	2167.4	2124.2	2093.3	2074.8	2052.2	2076.8	2091.3
12.5°	2377.4	2336.2	2272.4	2221.0	2116.0	2072.7	2041.9	2033.6	2072.7	2081.0	2066.6
15°	2416.5	2410.3	2328.0	2212.8	2103.6	2052.2	2058.3	2041.9	2046.0	2025.4	2029.5
17.5°	2496.8	2426.8	2330.1	2185.9	2101.6	2089.2	2052.2	1986.3	1949.3	1932.8	1947.2
20°	2585.3	2517.4	2377.4	2196.3	2120.1	2087.2	1965.8	1885.4	1809.3	1768.1	1770.2
22.5°	2663.5	2579.1	2356.8	2200.4	2136.6	2000.7	1854.6	1696.0	1601.4	1537.6	1539.6
25°	2758.2	2638.8	2365.1	2208.6	2093.3	1862.8	1652.8	1498.5	1385.3	1342.1	1356.4
27.5°	2811.7	2675.9	2410.3	2227.1	1980.1	1667.3	1440.9	1296.7	1230.9	1210.3	1208.3
30°	2972.3	2758.2	2465.9	2190.0	1790.7	1457.3	1247.4	1158.8	1095.1	1076.5	1080.6
32.5°	3211.0	2908.4	2538.0	2093.3	1597.3	1270.0	1121.8	1056.0	996.2	961.3	957.1
35°	3410.7	3165.8	2614.1	1943.0	1372.9	1125.9	1033.3	950.9	860.4	821.3	811.0
37.5°	3791.5	3456.0	2597.6	1716.6	1158.8	1018.9	938.6	837.7	759.5	706.0	699.9
40°	4297.8	3795.6	2517.4	1440.9	1000.4	924.2	837.7	741.0	644.3	599.0	594.8
42.5°	4913.3	4211.4	2371.2	1160.9	841.8	829.5	751.3	640.2	553.7	520.7	522.8
45°	5413.4	4567.5	2223.0	932.4	724.5	736.9	668.9	564.0	504.3	477.5	477.5
47.5°	5858.1	4808.3	2062.5	769.9	615.4	644.3	584.6	522.8	471.4	450.8	446.7
50°	6286.2	5053.2	1901.9	623.7	524.9	553.7	547.5	498.1	456.9	432.3	434.3
52.5°	6553.7	5092.3	1698.1	510.5	459.0	492.0	512.5	467.3	421.9	407.5	403.4
55°	6226.5	4588.1	1317.3	419.9	389.0	432.3	471.4	419.9	384.9	360.2	358.2
56°	5786.0	4102.3	1101.2	386.9	368.4	415.8	456.9	401.4	362.3	347.8	337.6
57.5°	4898.9	3357.2	813.1	343.7	341.7	386.9	434.3	382.8	337.6	325.2	325.2
60°	3054.6	1889.6	492.0	288.2	296.4	343.7	391.1	341.7	300.5	300.5	306.7
62.5°	1391.4	786.3	298.5	245.0	255.2	296.4	347.8	308.7	286.1	308.7	312.9
65°	473.4	339.6	216.1	195.5	201.8	245.0	298.5	312.9	310.8	325.2	333.5
67.5°	265.5	218.2	181.2	162.6	158.5	181.2	245.0	312.9	300.5	294.3	298.5
70°	224.4	185.3	160.5	144.1	137.9	146.2	189.4	236.7	212.0	205.9	201.8
72.5°	181.2	154.4	139.9	129.7	111.2	94.7	86.5	90.6	100.8	107.1	117.3
75°	127.6	117.3	117.3	105.0	80.3	59.7	47.3	39.1	26.7	18.5	20.6
77.5°	72.1	72.1	74.1	63.8	51.5	39.1	28.8	20.6	10.3	4.1	2.0
80°	49.4	53.5	57.6	51.5	43.2	35.0	24.7	14.4	6.1	0.0	0.0
82.5°	49.4	55.6	59.7	51.5	43.2	33.0	24.7	14.4	6.1	2.0	0.0
85°	10.3	12.4	14.4	16.5	24.7	24.7	18.5	12.4	6.1	2.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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)