

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: P648626

Luminaire Tested: **GALN-SA8B-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648626
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-SA8B-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA 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: 26026.1 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

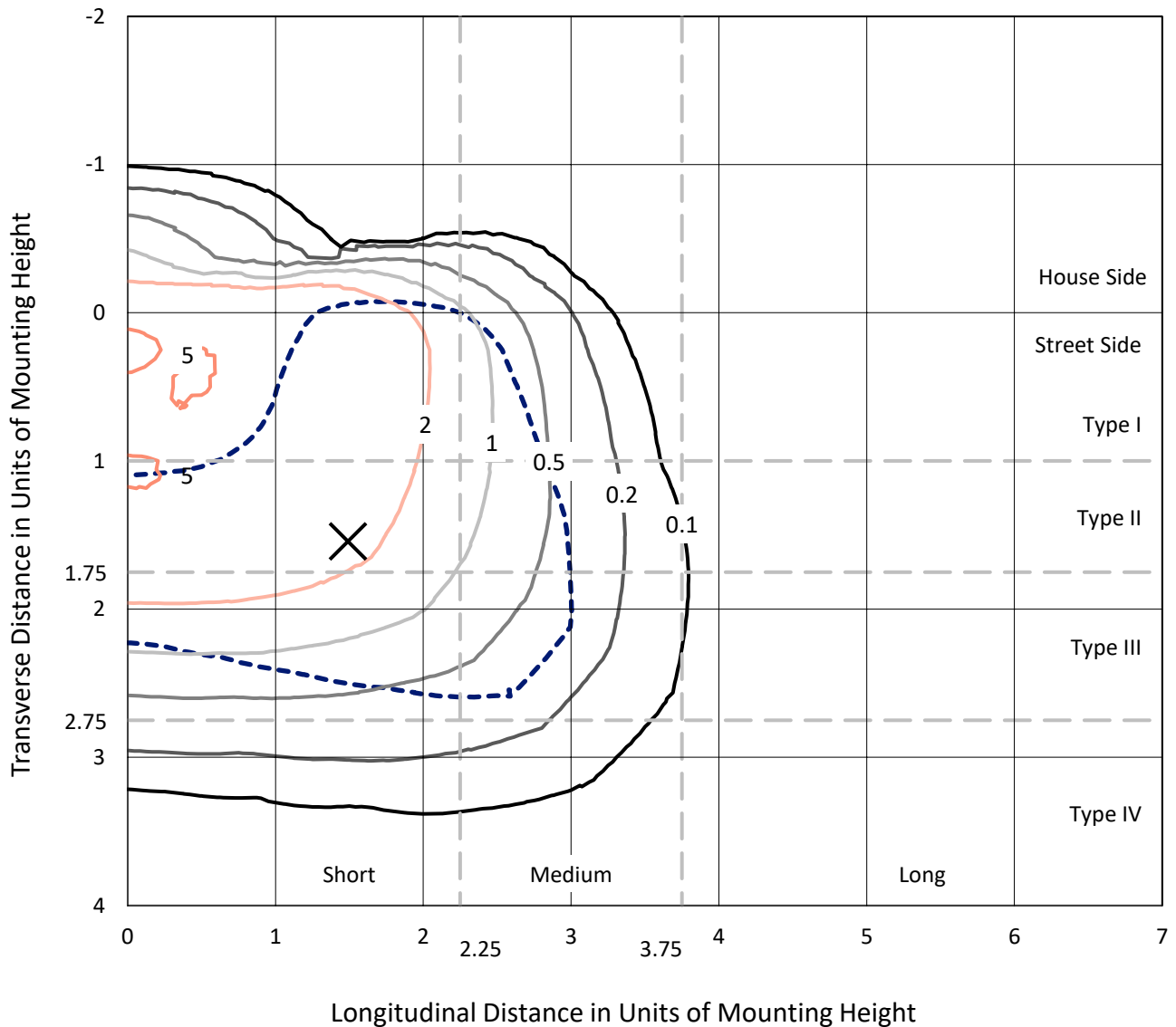
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

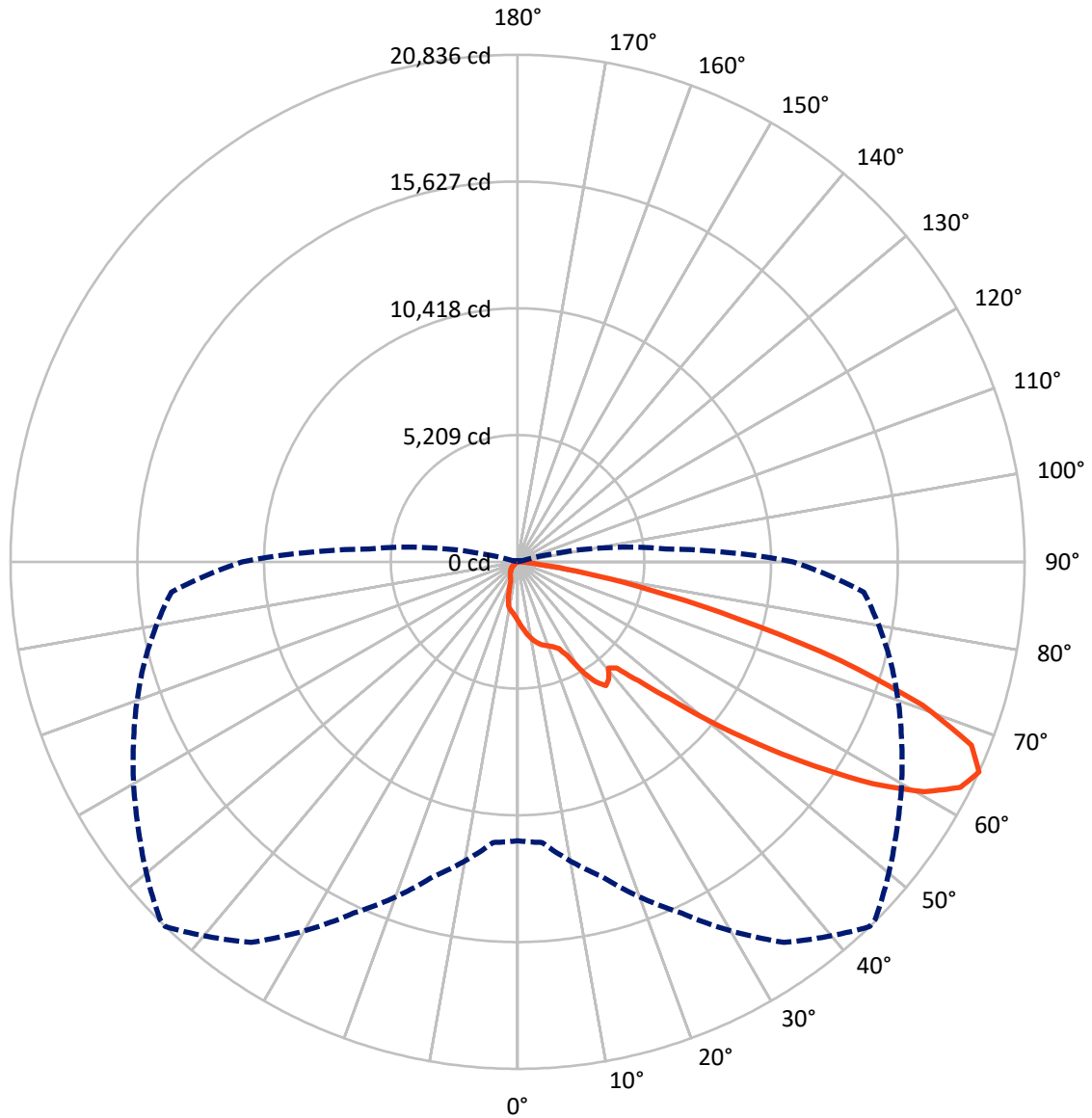
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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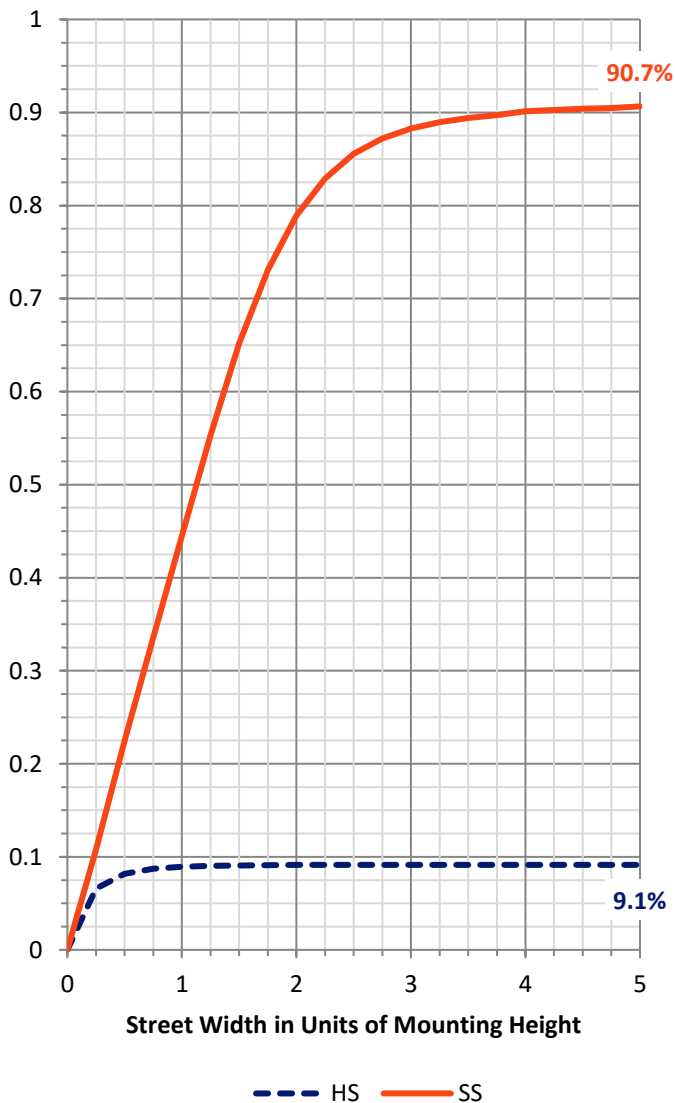
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2397.9	0.0	2397.9
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	23628.2	0.0	23628.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	26026.1	0.0	26026.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.9	0.9
10°-20°	725.1	2.8
20°-30°	1229.5	4.7
30°-40°	2044.2	7.9
40°-50°	3569.3	13.7
50°-60°	6973.1	26.8
60°-70°	8090.4	31.1
70°-80°	2946.1	11.3
80°-90°	207.6	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°	26026.1	100.0
0°-180°	26026.1	100.0

Coefficient of Utilization



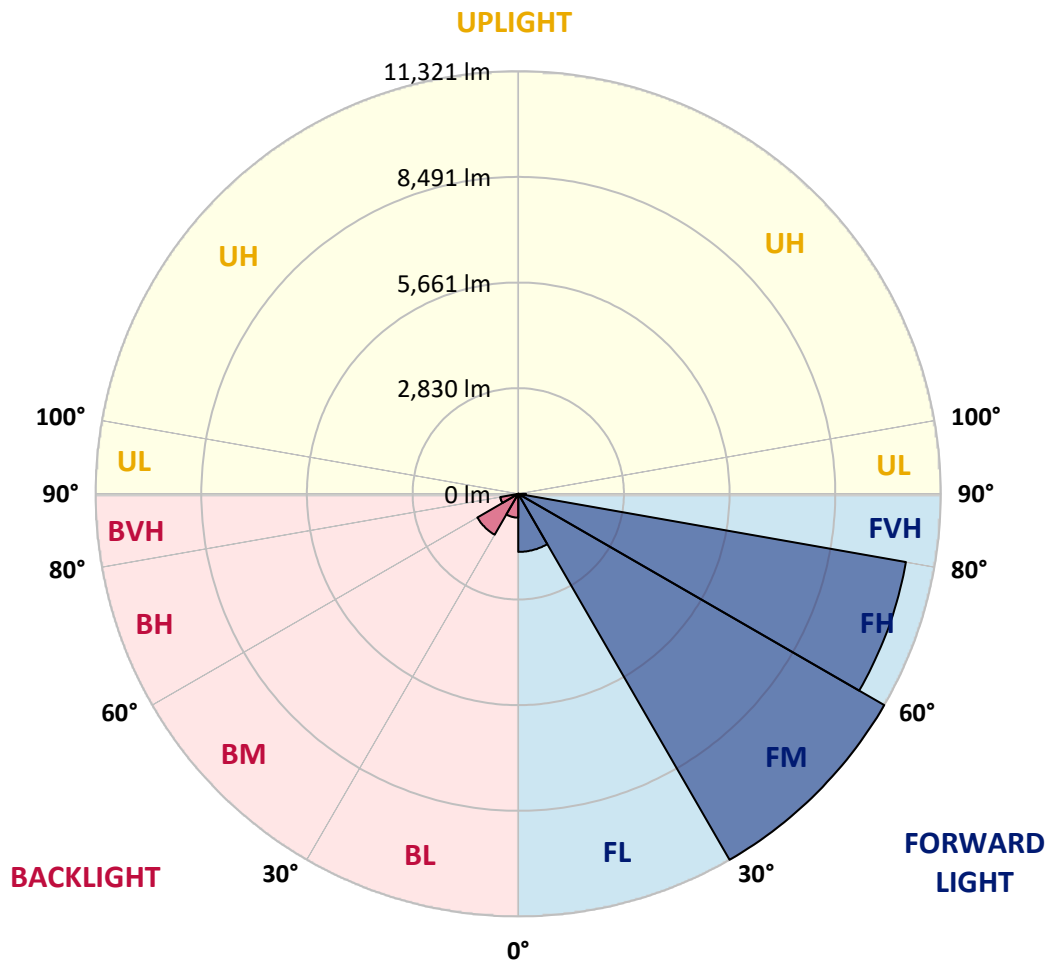
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1556.6	6.0			
FM (30°-60°)	11321.4	43.5			
FH (60°-80°)	10545.4	40.5			G4/12000
FVH (80°-90°)	204.8	0.8			G2/225
BL (0°-30°)	638.9	2.5	B2/1000		
BM (30°-60°)	1265.1	4.9	B2/2500		
BH (60°-80°)	491.1	1.9	B1/500		G1/500
BVH (80°-90°)	2.8	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°	2422.3	2422.3	2422.3	2422.3	2422.3	2422.3	2422.3	2422.3	2422.3	2422.3	2422.3
2.5°	2726.6	2714.6	2708.6	2676.8	2653.0	2623.1	2623.1	2585.3	2541.6	2493.9	2450.1
5°	3030.8	3010.9	2985.0	2957.2	2901.6	2822.0	2822.0	2742.5	2650.9	2569.4	2479.9
7.5°	3323.1	3305.3	3261.5	3207.8	3116.3	3032.8	3026.8	2911.5	2802.1	2678.8	2551.6
10°	3579.7	3565.8	3528.0	3424.6	3329.1	3219.7	3217.7	3088.5	2961.2	2810.0	2653.0
12.5°	3758.7	3760.7	3711.0	3611.5	3488.2	3384.8	3376.8	3249.5	3116.3	2953.2	2760.3
15°	3886.0	3886.0	3834.3	3722.9	3611.5	3520.1	3512.1	3400.7	3263.5	3086.5	2877.7
17.5°	3921.7	3933.7	3878.0	3778.5	3689.1	3609.6	3607.5	3514.0	3404.7	3233.6	2997.0
20°	3907.8	3919.8	3876.0	3798.4	3736.8	3691.1	3685.1	3647.3	3545.9	3384.8	3124.2
22.5°	3878.0	3889.9	3858.1	3812.3	3782.5	3796.5	3786.5	3818.3	3764.7	3569.8	3275.4
25°	3884.0	3895.9	3872.0	3846.2	3872.0	3957.5	3983.4	4120.6	4072.9	3804.4	3438.5
27.5°	4070.9	4094.8	4061.0	4072.9	4164.4	4363.3	4413.0	4649.6	4438.8	4102.7	3693.0
30°	4486.5	4470.6	4407.0	4464.7	4782.9	5204.4	5190.6	5152.8	4822.7	4446.7	3995.3
32.5°	4864.4	4850.5	4846.5	5095.1	5671.8	5876.6	5866.7	5500.8	5166.7	4840.5	4293.7
35°	5017.5	4963.8	4951.9	5554.5	6519.0	6248.6	6186.9	5643.9	5584.4	5270.1	4597.9
37.5°	5478.9	5441.1	5256.2	5630.1	6180.9	6091.4	6043.7	5890.6	6029.8	5650.0	4942.0
40°	6429.5	6324.1	6157.0	5791.1	5701.6	5739.5	5787.2	6206.8	6556.8	6169.0	5401.4
42.5°	7610.8	7587.0	7276.7	6594.6	5924.4	5976.1	6037.7	6867.1	7314.5	6950.5	6151.1
45°	9028.8	9062.6	8615.1	7809.7	6930.6	6974.4	7063.9	7841.5	8340.7	8165.7	7330.4
47.5°	10317.4	10291.6	10140.5	9303.2	8491.8	8394.4	8539.6	9092.4	9760.6	9788.4	8794.1
50°	11614.1	11751.3	11526.6	11198.5	10595.9	10391.0	10337.3	10607.8	11626.1	11492.8	10552.1
52.5°	13477.5	13549.1	13127.5	13044.0	13181.2	12517.0	12463.3	12528.9	13439.7	12982.4	11868.6
55°	14648.9	14607.1	14450.0	15102.3	15645.2	14815.9	14748.4	14483.9	14945.2	14034.4	13135.5
57.5°	15018.8	15078.5	15444.4	16623.7	17908.4	17204.4	17081.1	16329.4	16031.1	15014.8	14300.9
60°	14853.7	14963.1	15752.6	17506.7	19288.6	19183.2	19077.8	17814.9	16810.6	15834.1	15118.2
62.5°	13678.4	13831.5	15094.4	17349.6	19756.0	20414.1	20282.9	18741.7	17329.7	16231.9	15261.4
65°	11463.0	11576.3	13390.0	15923.6	19091.7	20835.8	20788.0	19032.0	17411.2	15868.0	14281.0
67.5°	8171.6	8557.5	10237.9	13419.8	17126.8	20115.9	20197.4	18684.0	16645.6	14294.9	11826.9
70°	5136.9	5399.3	6604.5	9607.5	13730.1	17647.9	17916.4	17091.0	14446.0	11142.8	7917.1
72.5°	2450.1	2645.0	3504.1	6081.5	9691.0	13885.3	14098.0	14030.4	11170.6	7020.1	4084.8
75°	1091.8	1165.4	1672.5	3104.4	6256.5	9333.0	9883.9	9975.4	6980.4	3434.6	1589.0
77.5°	556.9	558.8	783.5	1503.4	3124.2	5568.4	5677.8	5997.9	3784.6	1513.4	552.9
80°	296.3	316.2	415.6	709.9	1620.8	2742.5	2728.5	2999.0	1678.4	741.8	184.9
82.5°	133.3	147.2	234.7	371.9	791.5	1040.1	1121.6	1227.0	719.9	473.3	81.5
85°	39.8	47.8	115.3	186.9	286.3	300.3	336.1	433.5	407.7	336.1	41.7
87.5°	6.0	6.0	47.8	51.7	41.7	53.7	55.7	61.6	131.2	123.3	21.8
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°	2422.3	2422.3	2422.3	2422.3	2422.3	2422.3	2422.3	2422.3	2422.3	2422.3	2422.3
2.5°	2426.2	2412.3	2362.6	2320.8	2285.0	2263.2	2237.3	2221.4	2213.5	2207.5	2209.5
5°	2436.1	2402.4	2316.8	2249.2	2197.6	2141.8	2104.1	2082.2	2072.2	2056.3	2056.3
7.5°	2491.9	2438.2	2318.9	2215.4	2125.9	2050.4	1978.8	1953.0	1935.0	1931.0	1927.0
10°	2571.4	2503.8	2340.7	2197.6	2070.3	1966.8	1865.4	1775.9	1706.3	1664.6	1658.6
12.5°	2670.8	2573.4	2374.5	2185.6	2022.5	1839.6	1571.1	1390.1	1268.8	1231.0	1237.0
15°	2762.3	2657.0	2408.4	2175.6	1935.0	1525.4	1221.1	1014.2	952.6	946.6	948.6
17.5°	2871.7	2746.5	2448.1	2161.7	1694.4	1165.4	906.9	851.2	863.1	883.0	881.0
20°	2985.0	2841.9	2495.8	2078.2	1352.3	877.0	801.5	807.4	825.3	843.2	847.2
22.5°	3106.4	2951.3	2551.6	1877.3	1032.2	763.7	759.7	767.7	785.5	805.4	809.4
25°	3273.4	3088.5	2593.3	1614.9	781.6	706.0	713.9	727.9	743.8	765.6	769.6
27.5°	3488.2	3273.4	2615.1	1272.8	676.2	654.3	656.3	676.2	696.1	716.0	716.0
30°	3766.6	3494.1	2571.4	962.5	624.4	604.6	596.6	608.5	634.4	654.3	656.3
32.5°	4015.2	3703.0	2456.0	735.9	586.7	558.8	538.9	540.9	550.8	562.8	564.8
35°	4263.8	3905.8	2259.2	618.5	546.9	515.1	485.2	469.3	461.3	455.4	461.3
37.5°	4582.0	4158.4	1996.6	562.8	513.1	473.3	431.6	397.8	369.9	352.0	356.0
40°	4991.7	4508.4	1686.4	527.0	481.2	433.5	377.9	334.1	286.3	270.4	262.5
42.5°	5667.8	5039.4	1360.3	497.2	449.4	391.8	322.2	262.5	218.8	202.9	206.8
45°	6735.8	5709.6	1048.0	465.3	417.7	346.0	270.4	206.8	171.0	163.1	167.0
47.5°	8151.7	6576.7	807.4	429.6	377.9	296.3	212.8	163.1	141.2	139.2	137.3
50°	9484.2	7384.1	674.2	389.8	330.1	246.6	175.0	137.3	123.3	121.3	121.3
52.5°	10689.4	7962.8	548.9	344.1	278.4	202.9	147.2	121.3	109.4	103.4	103.4
55°	11761.3	8340.7	445.4	288.4	218.8	161.1	127.3	109.4	95.4	87.5	85.5
57.5°	12570.7	8386.4	334.1	230.7	163.1	125.3	109.4	95.4	79.6	69.6	65.6
60°	12916.7	7990.7	246.6	175.0	121.3	99.4	87.5	77.6	59.7	49.7	47.8
62.5°	12568.7	7221.1	183.0	133.3	93.5	73.6	61.6	57.7	41.7	29.8	27.9
65°	11321.8	6109.4	145.2	101.4	69.6	53.7	39.8	37.8	25.8	13.9	11.9
67.5°	9070.5	4784.8	115.3	75.6	49.7	35.8	25.8	23.9	13.9	4.0	4.0
70°	5898.5	3058.6	93.5	55.7	31.8	23.9	15.9	11.9	8.0	2.0	0.0
72.5°	2917.5	1429.9	75.6	43.8	21.8	11.9	6.0	4.0	6.0	0.0	0.0
75°	1131.6	509.1	55.7	29.8	11.9	6.0	4.0	0.0	2.0	0.0	0.0
77.5°	375.8	169.0	33.8	15.9	8.0	4.0	0.0	0.0	0.0	0.0	0.0
80°	139.2	65.6	17.9	9.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	55.7	25.8	11.9	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.9	15.9	8.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.9	11.9	8.0	6.0	4.0	2.0	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)