

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: P530684

Luminaire Tested: **GALN-SA5D-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25823 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 309
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

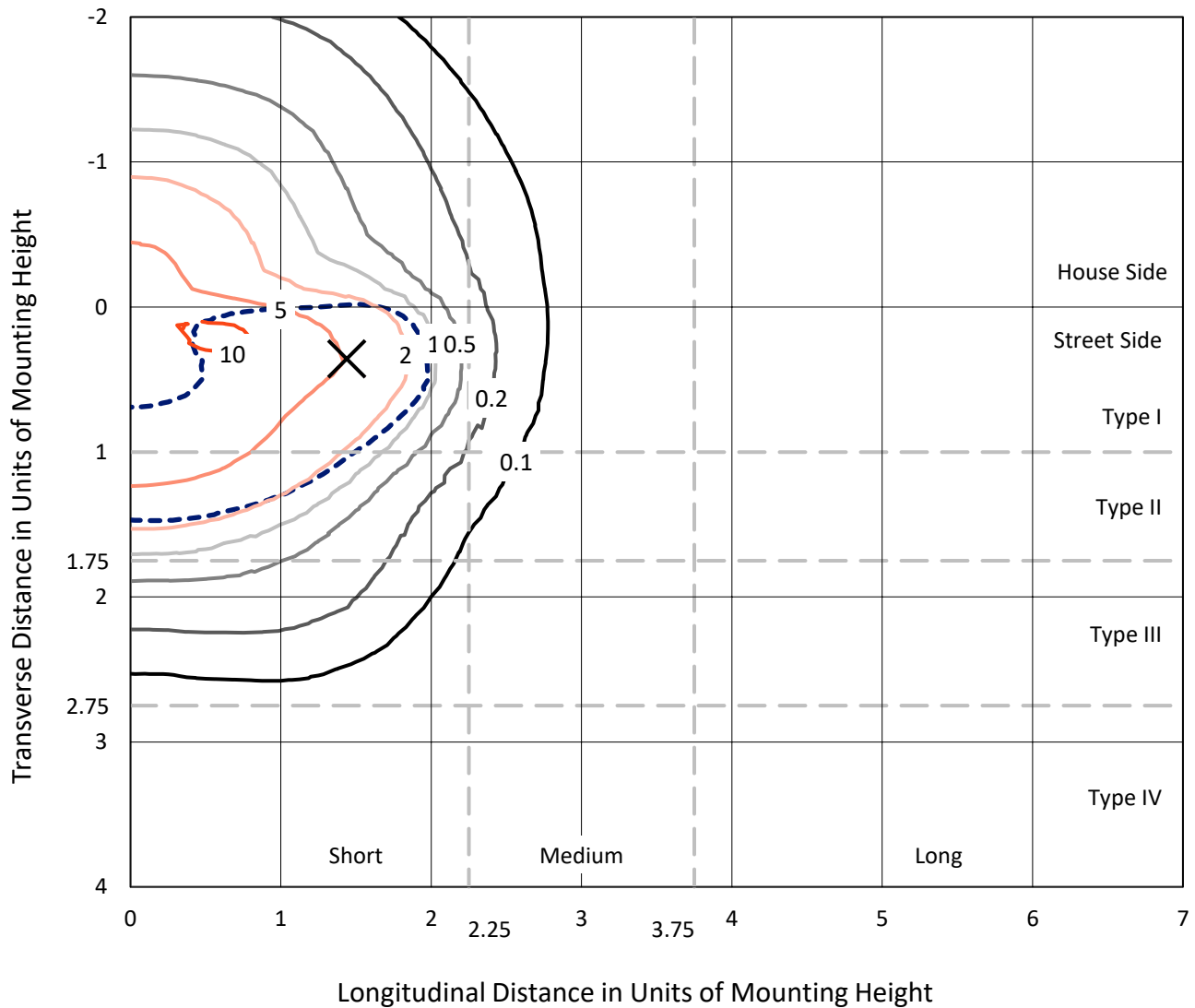


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Iso-Footcandle Lines of Horizontal Illumination

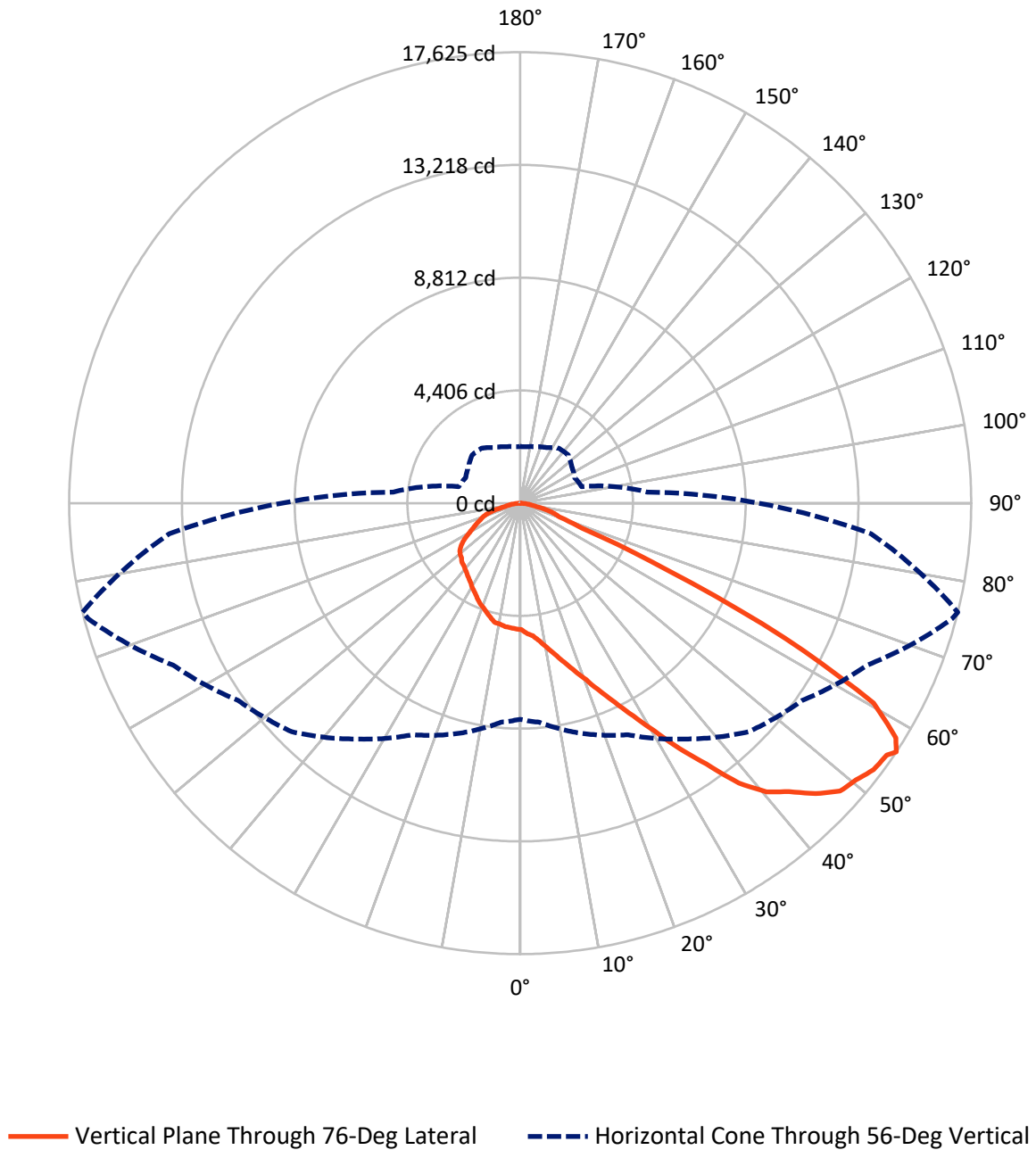
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	6943.0	0.0	6943.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	18880.0	0.0	18880.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	25823.0	0.0	25823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.0	1.9
10°-20°	1539.2	6.0
20°-30°	2691.9	10.4
30°-40°	4214.7	16.3
40°-50°	6131.2	23.7
50°-60°	6738.6	26.1
60°-70°	3007.8	11.6
70°-80°	868.8	3.4
80°-90°	140.9	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°	25823.0	100.0
0°-180°	25823.0	100.0

Coefficient of Utilization



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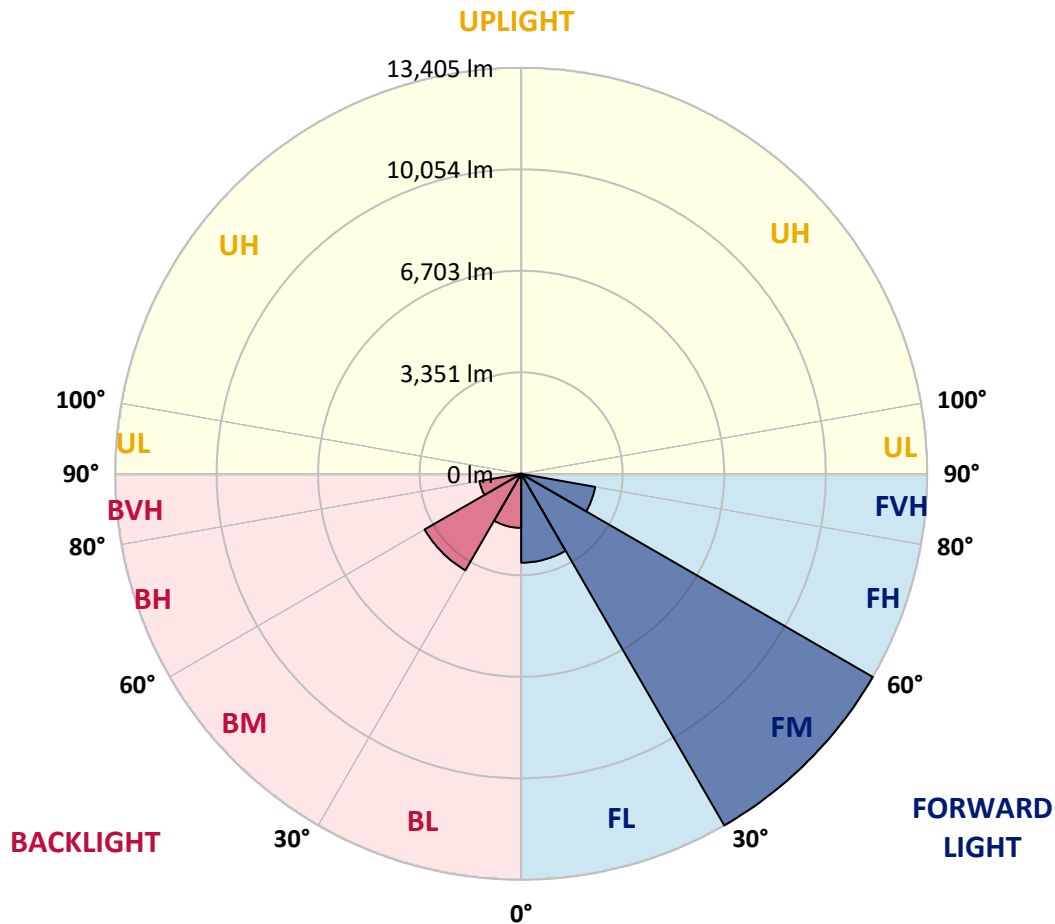
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2934.5	11.4			
FM	(30°-60°)	13405.2	51.9			
FH	(60°-80°)	2479.6	9.6			G2/5000
FVH	(80°-90°)	60.7	0.2			G1/100
BL	(0°-30°)	1786.6	6.9	B3/2500		
BM	(30°-60°)	3679.2	14.2	B3/5000		
BH	(60°-80°)	1397.0	5.4	B3/2500		G3/2500
BVH	(80°-90°)	80.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4940.9	4940.9	4940.9	4940.9	4940.9	4940.9	4940.9	4940.9	4940.9	4940.9	4940.9
2.5°	5443.0	5356.0	5349.3	5325.9	5339.3	5279.0	5215.4	5131.7	5044.7	5098.2	4971.0
5°	5824.6	5707.5	5754.3	5674.0	5684.0	5603.7	5473.2	5376.1	5269.0	5205.4	5115.0
7.5°	5958.5	5968.6	6002.1	5988.7	5921.7	5921.7	5834.7	5664.0	5476.5	5439.7	5289.0
10°	6139.3	6142.6	6105.8	6115.9	6209.6	6166.1	6089.1	6015.4	5774.4	5730.9	5463.1
12.5°	6202.9	6142.6	6202.9	6256.5	6366.9	6427.2	6410.4	6356.9	6099.1	6069.0	5677.3
15°	6212.9	6176.1	6226.3	6346.8	6443.9	6698.3	6825.5	6788.7	6447.3	6450.6	5918.4
17.5°	6166.1	6216.3	6236.4	6340.2	6564.4	6802.1	7170.3	7220.5	6939.4	6895.8	6223.0
20°	6229.7	6192.9	6219.6	6313.4	6611.3	6982.9	7464.9	7796.3	7401.3	7371.2	6537.7
22.5°	6474.1	6423.8	6417.1	6477.4	6691.6	7076.6	7776.2	8372.1	7963.7	7980.4	6929.3
25°	6664.9	6691.6	6668.2	6664.9	6798.8	7217.2	8188.0	9058.3	8726.9	8629.8	7391.3
27.5°	6992.9	7056.5	7009.7	7073.3	7043.1	7428.1	8482.5	9818.2	9550.4	9419.8	7809.7
30°	7448.2	7481.6	7438.1	7438.1	7347.7	7722.7	8750.3	10611.6	10501.1	10323.7	8301.8
32.5°	8047.4	8097.6	8010.6	7960.3	7946.9	8161.2	9232.4	11394.9	11582.3	11431.7	8954.5
35°	8840.7	8810.6	8706.8	8660.0	8479.2	8834.0	9948.7	12295.3	12787.4	12519.6	9744.6
37.5°	9540.4	9493.5	9486.8	9225.7	9269.2	9560.4	10558.0	12978.2	13955.7	13878.7	10578.1
40°	10193.1	10236.6	10306.9	10159.6	10092.7	10414.1	11267.7	13500.4	14862.9	14832.7	11220.8
42.5°	10892.7	10852.6	10976.4	10852.6	10752.1	11207.4	12037.6	13862.0	15659.6	15411.9	11893.6
45°	11907.0	11779.8	11823.3	11833.4	11759.7	11927.1	12355.6	14123.1	16218.6	16191.8	12385.7
47.5°	12753.9	12757.3	12683.7	12626.7	12402.5	12569.8	12710.4	14287.1	16861.3	16817.8	12576.5
50°	13068.6	13025.1	13239.3	13363.2	13376.6	13035.1	12988.3	14377.5	17199.4	17008.6	12767.3
52.5°	11937.2	11977.3	12315.4	13051.9	13477.0	13513.8	13313.0	14564.9	17336.7	17296.5	12921.3
55°	9607.3	9801.5	10357.1	11207.4	12215.0	13323.0	13664.5	14759.1	17410.3	17376.8	13604.2
56°	8445.7	8596.4	9319.4	9985.6	11250.9	12630.1	13443.5	14966.6	17467.2	17624.5	13764.9
57.5°	6798.8	6972.8	7491.7	8248.2	9741.2	11311.2	12834.3	14712.2	17246.3	17306.5	13882.1
60°	4251.3	4268.1	4890.7	5389.5	6440.6	7973.7	9794.8	12800.8	15960.8	15873.8	12469.4
62.5°	2788.5	2791.8	3357.5	3765.9	4244.6	4596.1	5764.4	8489.2	11776.5	11622.5	8877.6
65°	1958.3	2001.8	2440.3	2986.0	3180.1	2996.0	2959.2	4475.6	6577.8	6356.9	4770.2
67.5°	1432.7	1436.1	1824.4	2410.2	2691.4	2279.6	1851.2	2185.9	2604.3	2597.7	2209.3
70°	947.3	987.5	1285.4	1801.0	2122.3	1831.1	1513.1	1563.3	1657.0	1657.0	1643.6
72.5°	552.3	589.2	786.7	1141.5	1191.7	1144.8	1198.4	1339.0	1399.3	1395.9	1379.2
75°	314.7	331.4	374.9	475.3	592.5	699.6	880.4	1014.3	1074.5	1111.4	1067.9
77.5°	184.1	194.2	220.9	271.1	308.0	378.3	478.7	572.4	652.8	642.7	649.4
80°	97.1	97.1	123.9	160.7	214.2	267.8	318.0	371.6	415.1	425.1	435.2
82.5°	56.9	60.3	80.3	117.2	154.0	190.8	244.4	281.2	321.4	324.7	331.4
85°	30.1	33.5	50.2	77.0	103.8	117.2	120.5	113.8	123.9	117.2	133.9
87.5°	10.0	10.0	16.7	13.4	13.4	16.7	20.1	20.1	26.8	26.8	26.8
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°	4940.9	4940.9	4940.9	4940.9	4940.9	4940.9	4940.9	4940.9	4940.9	4940.9	4940.9
2.5°	4967.7	4967.7	4910.8	4803.7	4786.9	4743.4	4703.2	4699.9	4669.8	4643.0	4629.6
5°	5061.4	4957.6	4873.9	4776.9	4663.1	4609.5	4549.2	4482.3	4455.5	4482.3	4478.9
7.5°	5168.5	5081.5	4830.4	4649.7	4519.1	4465.6	4398.6	4328.3	4335.0	4335.0	4288.1
10°	5272.3	5155.1	4753.4	4522.5	4331.7	4291.5	4254.7	4281.4	4314.9	4321.6	4291.5
12.5°	5446.4	5181.9	4716.6	4395.3	4274.7	4187.7	4211.1	4284.8	4355.1	4335.0	4358.4
15°	5576.9	5205.4	4549.2	4264.7	4114.1	4154.2	4237.9	4288.1	4405.3	4391.9	4415.3
17.5°	5704.1	5218.7	4385.2	4090.6	4027.0	4137.5	4201.1	4345.0	4381.9	4462.2	4492.3
20°	5965.2	5245.5	4217.8	3983.5	3963.4	4090.6	4201.1	4268.1	4348.4	4418.7	4418.7
22.5°	6099.1	5232.1	4107.4	3842.9	3906.5	3986.9	4087.3	4201.1	4201.1	4268.1	4271.4
25°	6266.5	5178.6	3933.3	3776.0	3822.8	3899.8	4013.6	3973.5	4017.0	4017.0	4070.6
27.5°	6457.3	5064.8	3782.7	3655.5	3749.2	3832.9	3849.6	3822.8	3772.6	3765.9	3745.8
30°	6611.3	4924.2	3672.2	3615.3	3692.3	3739.1	3685.6	3628.7	3541.6	3535.0	3488.1
32.5°	6822.2	4750.1	3535.0	3514.9	3601.9	3605.2	3588.5	3501.5	3374.3	3320.7	3267.2
35°	7177.0	4649.7	3431.2	3461.3	3488.1	3478.0	3447.9	3354.2	3227.0	3203.6	3183.5
37.5°	7438.1	4576.0	3324.1	3360.9	3384.3	3397.7	3307.3	3203.6	3206.9	3160.0	3146.6
40°	7732.7	4529.2	3237.0	3253.8	3257.1	3300.6	3190.2	3139.9	3163.4	3133.3	3153.3
42.5°	8111.0	4542.5	3146.6	3133.3	3196.9	3180.1	3126.6	3059.6	3073.0	2982.6	2996.0
45°	8311.8	4632.9	3093.1	3032.8	3103.1	3099.8	3029.5	2965.9	2885.5	2711.5	2718.2
47.5°	8445.7	4656.4	2965.9	2925.7	2999.4	3042.9	2962.5	2815.2	2701.4	2577.6	2547.4
50°	8583.0	4699.9	2905.6	2821.9	2852.1	2955.8	2855.4	2714.8	2604.3	2493.9	2510.6
52.5°	8703.5	4783.6	2788.5	2664.6	2718.2	2832.0	2778.4	2607.7	2487.2	2396.8	2370.0
55°	9239.1	4971.0	2591.0	2430.3	2557.5	2701.4	2671.3	2463.8	2333.2	2286.3	2279.6
56°	9322.8	4977.7	2487.2	2349.9	2467.1	2657.9	2621.1	2400.2	2283.0	2209.3	2212.7
57.5°	9336.2	4897.4	2339.9	2276.3	2376.7	2594.3	2547.4	2349.9	2189.3	2122.3	2102.2
60°	8214.7	3822.8	2155.8	2115.6	2232.8	2400.2	2383.4	2212.7	2031.9	1954.9	1991.8
62.5°	5600.4	2801.9	2011.8	2005.1	2065.4	2229.4	2185.9	2031.9	1881.3	1831.1	1807.6
65°	3260.5	2125.7	1871.2	1844.5	1894.7	1981.7	2011.8	1851.2	1693.8	1660.4	1650.3
67.5°	1924.8	1757.4	1690.5	1647.0	1630.2	1683.8	1707.2	1613.5	1456.2	1409.3	1449.5
70°	1610.1	1563.3	1566.6	1493.0	1452.8	1416.0	1395.9	1312.2	1181.7	1121.4	1104.7
72.5°	1389.2	1369.1	1355.7	1288.8	1252.0	1168.3	1081.2	997.6	900.5	850.3	853.6
75°	1061.2	1054.5	1061.2	1027.7	964.1	897.1	816.8	709.7	636.0	572.4	585.8
77.5°	632.7	652.8	662.8	649.4	622.6	562.4	512.2	441.9	371.6	321.4	314.7
80°	435.2	451.9	468.6	451.9	425.1	381.6	328.1	274.5	224.3	197.5	190.8
82.5°	331.4	348.1	358.2	341.4	308.0	261.1	224.3	187.5	147.3	120.5	113.8
85°	120.5	137.2	133.9	160.7	174.1	167.4	143.9	110.5	83.7	60.3	56.9
87.5°	33.5	30.1	33.5	33.5	33.5	30.1	26.8	26.8	26.8	16.7	13.4
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)