

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: P531607

Luminaire Tested: **GALN-SA6D-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27193 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 368
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

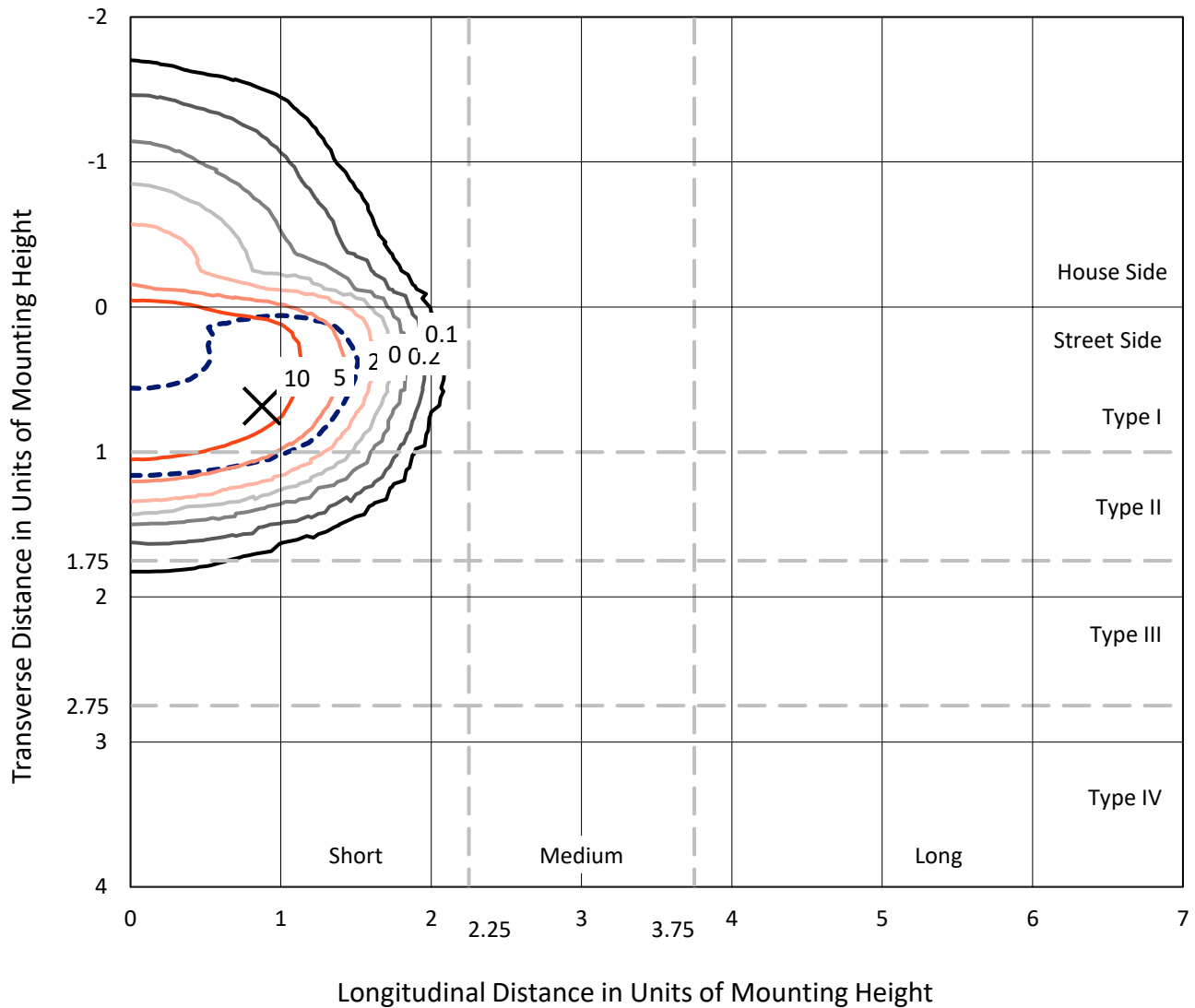


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

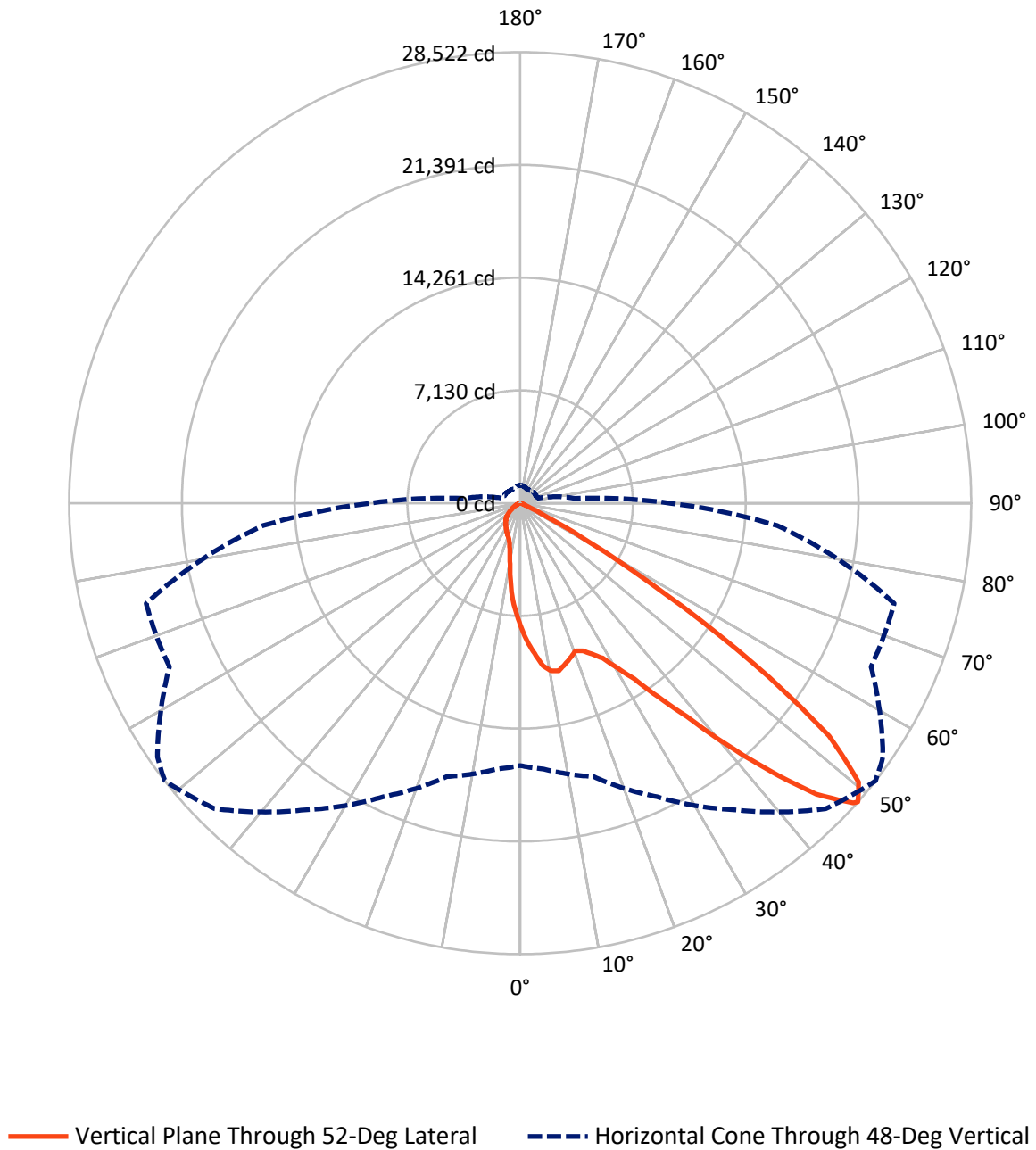


Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3311.0	0.0	3311.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	23882.0	0.0	23882.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	27193.0	0.0	27193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.8	2.6
10°-20°	1878.4	6.9
20°-30°	3207.2	11.8
30°-40°	5906.0	21.7
40°-50°	9172.0	33.7
50°-60°	5520.0	20.3
60°-70°	638.4	2.3
70°-80°	123.6	0.5
80°-90°	28.6	0.1
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°	27193.0	100.0
0°-180°	27193.0	100.0

Coefficient of Utilization



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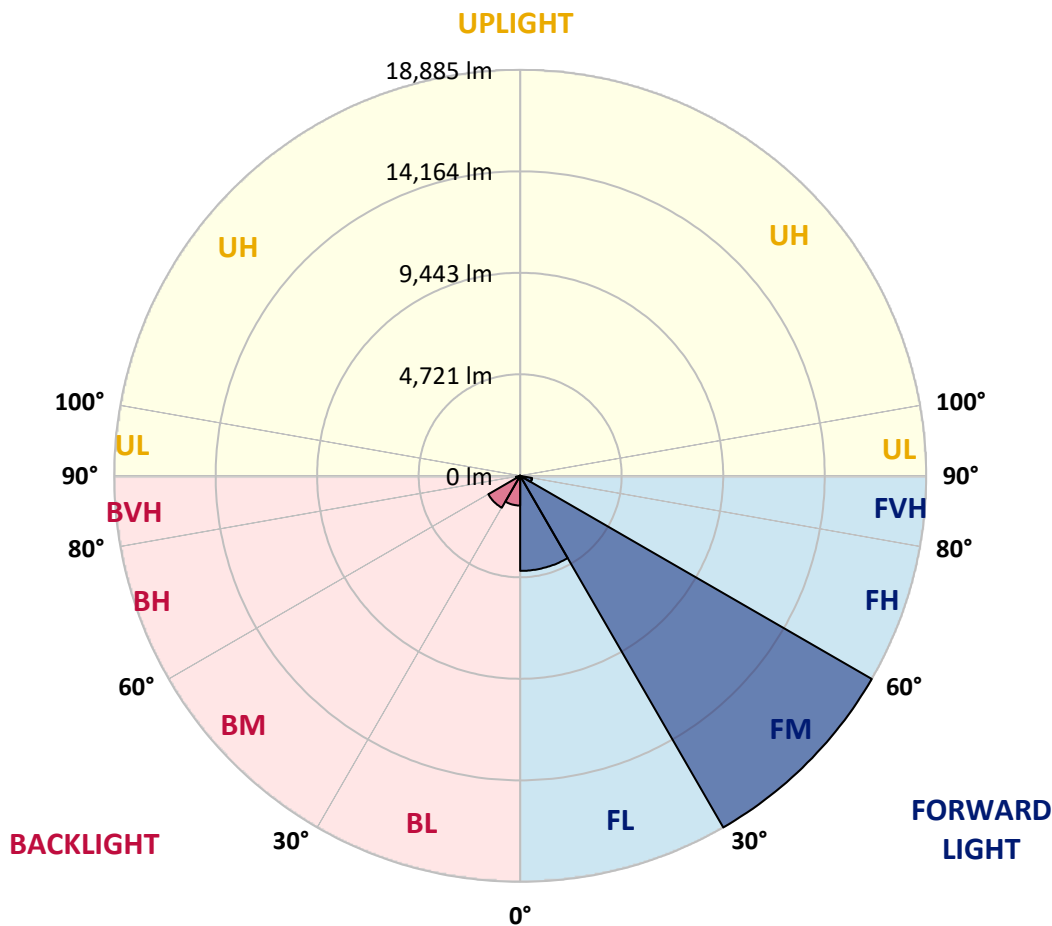
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4421.2	16.3			
FM	(30°-60°)	18885.0	69.4			
FH	(60°-80°)	562.2	2.1			G0/660
FVH	(80°-90°)	13.6	0.1			G1/100
BL	(0°-30°)	1383.1	5.1	B3/2500		
BM	(30°-60°)	1713.1	6.3	B2/2500		
BH	(60°-80°)	199.8	0.7	B1/500		G1/500
BVH	(80°-90°)	15.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9
2.5°	9517.8	9299.8	9319.6	9176.9	9093.7	8958.9	8776.5	8740.8	8542.6	8273.1	7999.6
5°	10374.1	10322.5	10389.9	10183.8	10191.7	9969.7	9541.6	9549.5	9093.7	8653.6	8229.5
7.5°	10429.6	10310.6	10378.0	10560.4	10667.4	10627.8	10385.9	10175.9	9743.8	9097.6	8479.2
10°	9339.4	9565.4	9636.7	9938.0	10366.1	10818.0	10790.3	10802.2	10441.4	9597.1	8693.3
12.5°	8685.3	8534.7	8776.5	8958.9	9605.0	10481.1	10881.5	10968.7	10996.4	10080.7	8907.3
15°	8388.0	8388.0	8427.7	8479.2	8947.0	9755.7	10572.3	10826.0	11424.5	10715.0	9244.3
17.5°	8574.4	8566.4	8621.9	8514.9	8689.3	9311.7	10286.8	10576.2	11904.2	11337.3	9509.9
20°	9141.2	9169.0	9133.3	8824.1	8836.0	9303.7	9969.7	10425.6	12229.3	11876.5	9862.7
22.5°	9930.1	9945.9	9743.8	9406.8	9307.7	9537.6	10152.1	10500.9	12490.9	12522.6	9969.7
25°	10841.8	10778.4	10738.8	10263.1	9961.8	10160.0	10564.3	10766.5	12653.4	13077.6	10275.0
27.5°	12106.4	11979.5	11737.7	11313.5	11091.6	10810.1	11099.5	11432.5	13117.2	13854.5	10607.9
30°	13973.5	13862.5	13390.7	12843.7	12261.0	11983.5	12074.7	12257.0	13953.6	14754.4	11048.0
32.5°	16784.0	16550.1	15868.3	14825.7	14032.9	13267.9	13244.1	13438.3	14702.9	15999.1	11571.2
35°	19880.0	19808.6	18805.7	17731.4	16197.3	15016.0	15035.8	15138.9	16137.9	17632.3	12257.0
37.5°	21937.3	22329.8	21691.6	20538.0	19249.7	17561.0	17132.9	17168.5	18108.0	19566.8	13493.8
40°	23526.9	23194.0	23269.3	22999.7	22119.7	20970.1	20022.7	19836.4	20387.4	21707.4	14722.7
42.5°	22833.2	22849.1	23312.9	23951.1	24169.1	24085.9	23118.6	22765.8	22337.7	23459.6	15892.1
45°	20875.0	21283.3	21885.8	23574.5	25057.1	26448.5	26258.2	25671.5	23685.5	24847.0	16566.0
47.5°	17751.3	17735.4	18722.5	20918.6	24212.7	27471.2	28335.4	27923.1	24640.9	24692.4	16427.2
48°	16597.7	16883.1	17901.9	20486.5	23677.6	27320.6	28521.7	28002.4	24478.3	24486.3	16308.3
50°	12268.9	12217.4	13485.9	16657.2	21148.5	25671.5	27736.8	28141.2	24474.4	23443.7	15475.9
52.5°	6481.3	6703.3	7626.9	10473.2	14952.6	21009.7	24466.4	25096.7	23610.2	21739.1	14278.7
55°	2755.1	2489.5	3199.0	4729.2	8411.8	14036.9	17949.5	19352.7	19963.2	19237.8	12490.9
57.5°	983.1	1074.3	1236.8	1779.9	3536.0	7682.4	10703.1	11793.2	13830.8	14116.2	8510.9
60°	630.3	642.2	693.7	816.6	1328.0	2961.2	5078.0	5946.2	6869.8	7091.8	3972.0
62.5°	487.6	491.5	515.3	535.2	630.3	1149.6	1906.7	2259.5	2346.7	2017.7	1042.6
65°	408.3	412.3	420.2	420.2	447.9	539.1	666.0	733.4	713.5	705.6	590.7
67.5°	313.2	321.1	336.9	336.9	352.8	329.0	368.7	392.4	444.0	539.1	503.4
70°	245.8	249.7	261.6	269.6	269.6	237.8	265.6	289.4	325.1	400.4	396.4
72.5°	190.3	198.2	206.1	206.1	194.2	162.5	190.3	210.1	233.9	277.5	269.6
75°	146.7	146.7	150.6	122.9	95.1	83.2	115.0	138.7	174.4	182.3	150.6
77.5°	39.6	43.6	39.6	35.7	39.6	59.5	75.3	87.2	111.0	111.0	99.1
80°	0.0	4.0	11.9	23.8	39.6	55.5	67.4	75.3	87.2	95.1	91.2
82.5°	0.0	4.0	11.9	23.8	35.7	43.6	59.5	63.4	71.4	83.2	83.2
85°	0.0	4.0	7.9	15.9	23.8	27.7	27.7	23.8	23.8	19.8	15.9
87.5°	0.0	0.0	4.0	7.9	7.9	11.9	11.9	11.9	11.9	11.9	11.9
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°	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9
2.5°	7892.5	7769.6	7583.3	7290.0	7008.5	6826.2	6651.8	6457.5	6350.5	6342.6	6283.1
5°	7987.7	7710.2	7266.2	6762.8	6223.6	5759.8	5292.1	4986.8	4713.3	4562.7	4534.9
7.5°	8039.2	7678.5	6961.0	6116.6	5196.9	4439.8	3916.5	3532.0	3381.4	3270.4	3266.4
10°	8146.2	7623.0	6505.1	5260.4	4122.7	3357.6	2996.9	2822.4	2739.2	2707.5	2659.9
12.5°	8225.5	7519.9	6037.3	4380.3	3258.5	2782.8	2624.2	2584.6	2588.6	2604.4	2584.6
15°	8336.5	7428.7	5407.0	3595.4	2735.2	2505.3	2505.3	2513.2	2568.7	2576.7	2572.7
17.5°	8328.6	7250.3	4756.9	2961.2	2418.1	2386.4	2398.3	2473.6	2509.3	2521.2	2493.4
20°	8423.7	7083.9	4087.0	2529.1	2239.7	2287.3	2366.6	2386.4	2430.0	2437.9	2406.2
22.5°	8396.0	6667.6	3464.6	2188.2	2104.9	2196.1	2275.4	2299.2	2287.3	2263.5	2259.5
25°	8344.4	6310.9	2893.8	1962.2	2005.8	2104.9	2180.3	2136.7	2112.9	2116.8	2120.8
27.5°	8253.3	5858.9	2422.1	1803.7	1871.1	2017.7	2013.8	1997.9	2021.7	2001.9	2021.7
30°	8237.4	5407.0	2033.6	1661.0	1772.0	1879.0	1886.9	1914.7	1942.4	1906.7	1942.4
32.5°	8261.2	4911.5	1756.1	1573.7	1712.5	1716.5	1803.7	1831.4	1811.6	1732.3	1740.2
35°	8443.5	4531.0	1553.9	1526.2	1617.4	1621.3	1704.6	1668.9	1581.7	1534.1	1561.9
37.5°	8828.1	4213.8	1458.8	1482.6	1490.5	1542.0	1546.0	1474.6	1482.6	1478.6	1494.5
40°	9319.6	3972.0	1391.4	1442.9	1435.0	1470.7	1328.0	1367.6	1403.3	1415.2	1423.1
42.5°	9656.6	3797.6	1347.8	1379.5	1363.7	1300.2	1220.9	1260.6	1288.3	1331.9	1339.9
45°	9807.2	3658.9	1296.3	1268.5	1268.5	1153.6	1121.8	1129.8	1193.2	1240.8	1232.8
47.5°	9561.4	3524.1	1205.1	1121.8	1149.6	1054.5	1018.8	1018.8	1086.2	1145.6	1133.7
48°	9466.3	3468.6	1209.1	1090.1	1109.9	1038.6	1002.9	995.0	1070.3	1125.8	1125.8
50°	8994.5	3262.5	1106.0	1002.9	963.3	955.3	931.6	939.5	987.1	1038.6	1038.6
52.5°	8074.9	2818.5	935.5	860.2	788.9	836.4	848.3	832.5	856.2	903.8	899.9
55°	6739.0	2164.4	749.2	713.5	658.0	709.6	733.4	713.5	689.8	725.4	725.4
57.5°	4316.9	1165.4	598.6	606.5	551.0	602.5	622.4	574.8	531.2	558.9	555.0
60°	1946.4	697.7	491.5	479.7	444.0	503.4	535.2	479.7	420.2	440.0	459.8
62.5°	729.4	495.5	372.6	364.7	356.8	412.3	428.1	384.5	325.1	336.9	340.9
65°	535.2	436.1	297.3	269.6	285.4	325.1	317.1	273.5	233.9	233.9	241.8
67.5°	455.9	380.6	241.8	210.1	210.1	214.1	198.2	174.4	162.5	170.5	178.4
70°	356.8	301.3	190.3	162.5	146.7	130.8	115.0	111.0	99.1	111.0	107.0
72.5°	229.9	202.2	146.7	122.9	111.0	91.2	75.3	71.4	59.5	55.5	55.5
75°	122.9	122.9	115.0	99.1	87.2	71.4	59.5	47.6	31.7	23.8	23.8
77.5°	87.2	95.1	103.1	95.1	79.3	59.5	47.6	31.7	15.9	7.9	7.9
80°	83.2	95.1	103.1	91.2	79.3	59.5	43.6	23.8	11.9	4.0	4.0
82.5°	75.3	87.2	95.1	83.2	71.4	51.5	39.6	23.8	11.9	4.0	4.0
85°	15.9	19.8	23.8	23.8	27.7	35.7	27.7	19.8	7.9	4.0	4.0
87.5°	11.9	11.9	11.9	11.9	11.9	11.9	7.9	7.9	4.0	4.0	4.0
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)