

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: P533011

Luminaire Tested: **GALN-SA8B-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533011
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-SA8B-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA 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: 27238 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

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



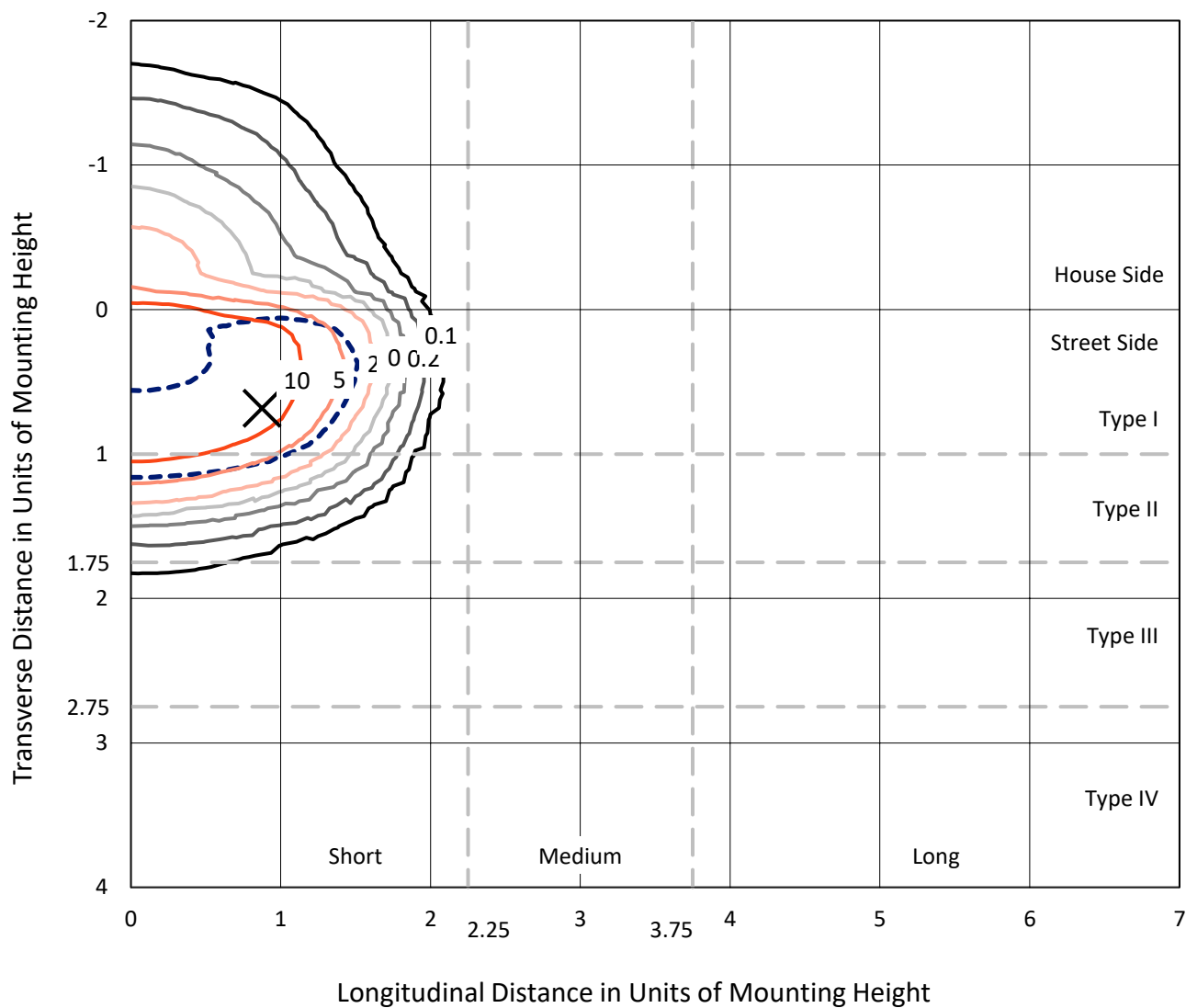
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

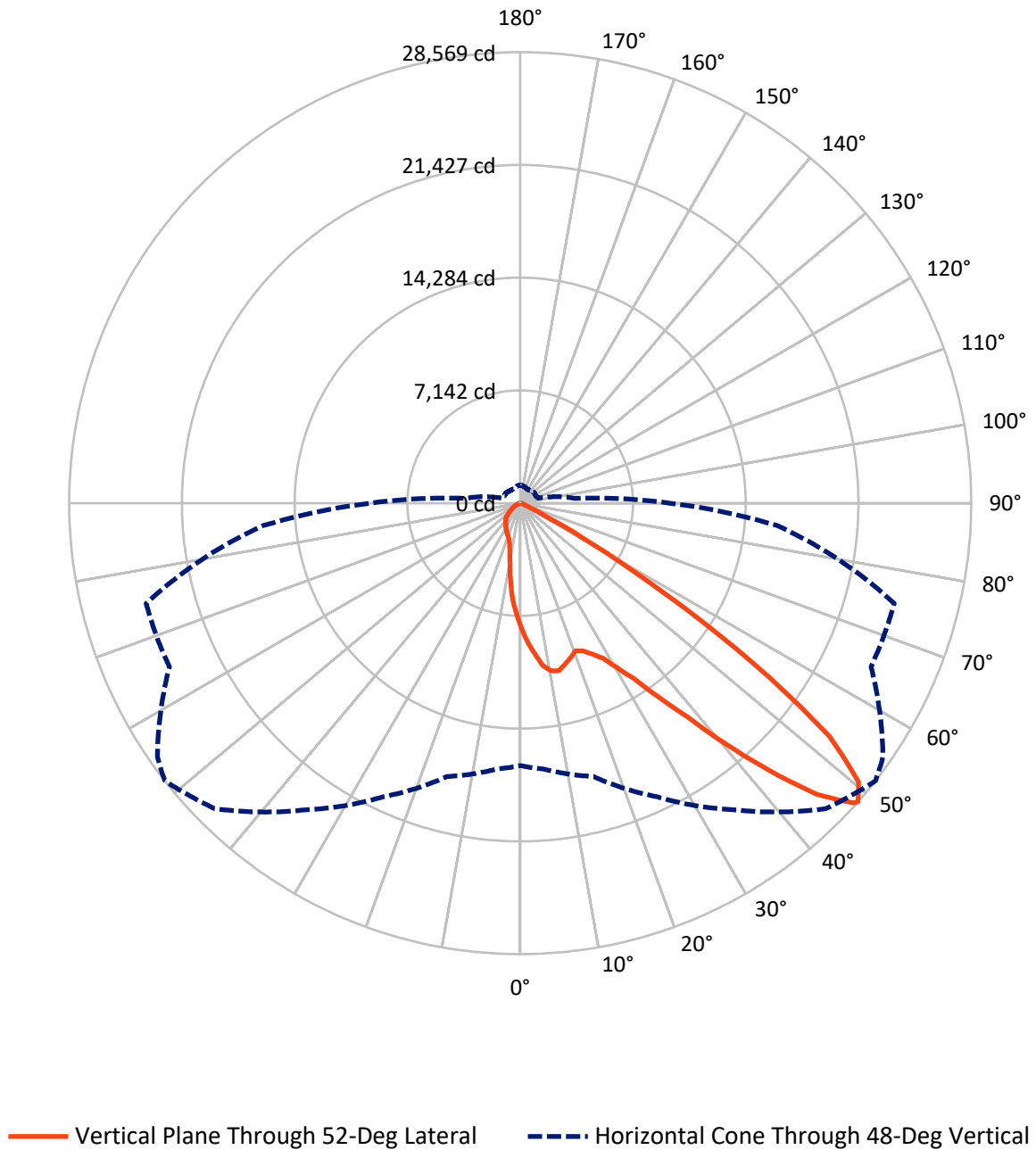


Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3316.4	0.0	3316.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	23921.6	0.0	23921.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	27238.0	0.0	27238.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	720.0	2.6
10°-20°	1881.5	6.9
20°-30°	3212.5	11.8
30°-40°	5915.8	21.7
40°-50°	9187.2	33.7
50°-60°	5529.1	20.3
60°-70°	639.5	2.3
70°-80°	123.8	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°	27238.0	100.0
0°-180°	27238.0	100.0

Coefficient of Utilization



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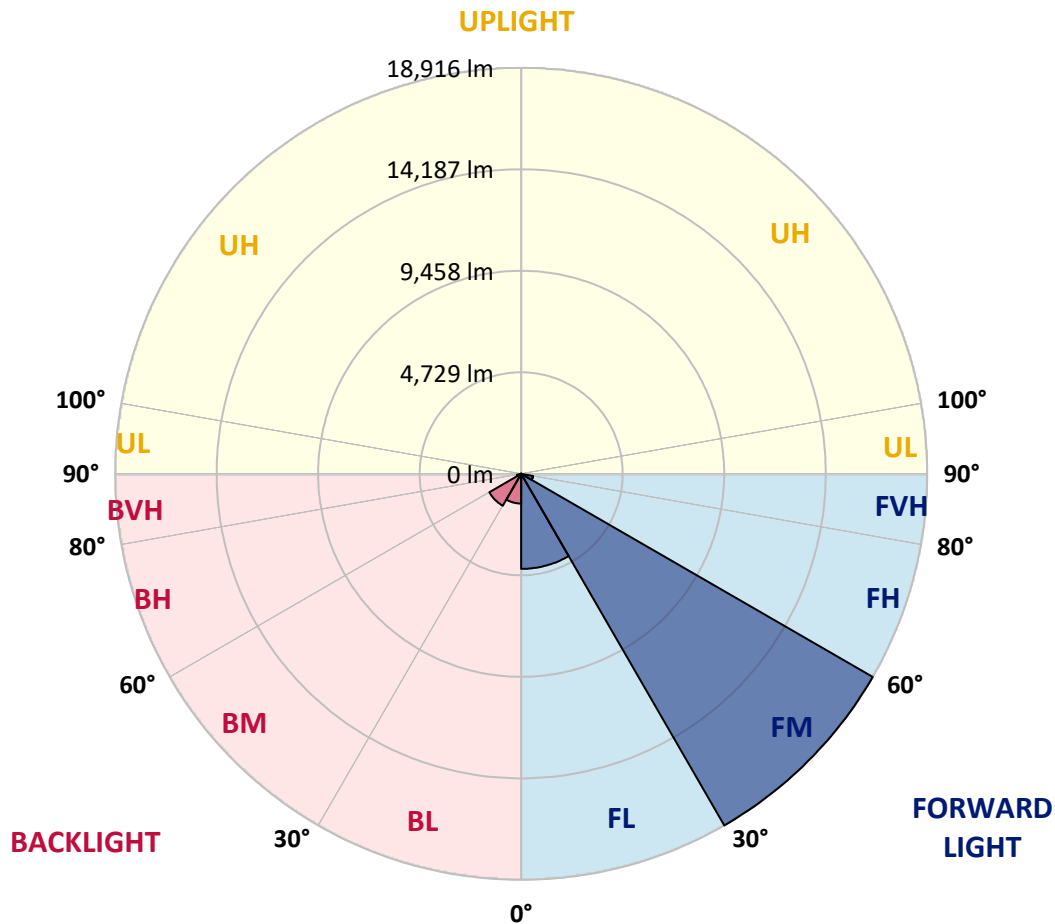
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4428.5	16.3			
FM	(30°-60°)	18916.3	69.4			
FH	(60°-80°)	563.1	2.1			G0/660
FVH	(80°-90°)	13.6	0.1			G1/100
BL	(0°-30°)	1385.4	5.1	B3/2500		
BM	(30°-60°)	1715.9	6.3	B2/2500		
BH	(60°-80°)	200.2	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°	7865.9	7865.9	7865.9	7865.9	7865.9	7865.9	7865.9	7865.9	7865.9	7865.9	7865.9
2.5°	9533.6	9315.2	9335.0	9192.1	9108.7	8973.7	8791.0	8755.3	8556.8	8286.8	8012.8
5°	10391.2	10339.6	10407.1	10200.6	10208.6	9986.2	9557.4	9565.3	9108.7	8668.0	8243.1
7.5°	10446.8	10327.7	10395.2	10577.8	10685.1	10645.3	10403.1	10192.7	9759.9	9112.7	8493.2
10°	9354.9	9581.2	9652.7	9954.5	10383.3	10835.9	10808.1	10820.1	10458.7	9613.0	8707.7
12.5°	8699.7	8548.8	8791.0	8973.7	9620.9	10498.4	10899.5	10986.8	11014.6	10097.4	8922.1
15°	8401.9	8401.9	8441.6	8493.2	8961.8	9771.8	10589.8	10843.9	11443.4	10732.7	9259.6
17.5°	8588.5	8580.6	8636.2	8529.0	8703.7	9327.1	10303.9	10593.7	11923.9	11356.1	9525.6
20°	9156.3	9184.1	9148.4	8838.7	8850.6	9319.1	9986.2	10442.8	12249.5	11896.1	9879.0
22.5°	9946.5	9962.4	9759.9	9422.4	9323.1	9553.4	10168.9	10518.3	12511.6	12543.3	9986.2
25°	10859.8	10796.2	10756.5	10280.0	9978.3	10176.8	10581.8	10784.3	12674.4	13099.2	10292.0
27.5°	12126.4	11999.3	11757.1	11332.3	11109.9	10828.0	11117.9	11451.4	13138.9	13877.5	10625.5
30°	13996.6	13885.4	13412.9	12864.9	12281.3	12003.3	12094.6	12277.3	13976.7	14778.8	11066.2
32.5°	16811.8	16577.5	15894.6	14850.3	14056.1	13289.8	13266.0	13460.5	14727.2	16025.6	11590.4
35°	19912.9	19841.4	18836.8	17760.8	16224.1	15040.9	15060.7	15164.0	16164.6	17661.5	12277.3
37.5°	21973.6	22366.7	21727.5	20572.0	19281.5	17590.0	17161.2	17196.9	18138.0	19599.2	13516.1
40°	23565.9	23232.3	23307.8	23037.8	22156.3	21004.8	20055.8	19869.2	20421.1	21743.3	14747.0
42.5°	22871.0	22886.9	23351.5	23990.7	24209.1	24125.7	23156.9	22803.5	22374.7	23498.4	15918.4
45°	20909.5	21318.5	21922.0	23613.5	25098.6	26492.3	26301.7	25714.0	23724.7	24888.1	16593.4
47.5°	17780.6	17764.7	18753.4	20953.2	24252.8	27516.7	28382.3	27969.3	24681.6	24733.3	16454.4
48°	16625.2	16911.1	17931.5	20520.4	23716.8	27365.8	28568.9	28048.8	24518.8	24526.8	16335.3
50°	12289.2	12237.6	13508.2	16684.7	21183.5	25714.0	27782.7	28187.7	24514.9	23482.5	15501.5
52.5°	6492.0	6714.4	7639.6	10490.5	14977.3	21044.5	24506.9	25138.3	23649.3	21775.1	14302.3
55°	2759.6	2493.6	3204.3	4737.0	8425.7	14060.1	17979.2	19384.8	19996.3	19269.6	12511.6
57.5°	984.7	1076.0	1238.8	1782.8	3541.8	7695.1	10720.8	11812.7	13853.6	14139.5	8525.0
60°	631.3	643.2	694.9	818.0	1330.2	2966.1	5086.4	5956.0	6881.2	7103.5	3978.6
62.5°	488.4	492.4	516.2	536.0	631.3	1151.5	1909.9	2263.3	2350.6	2021.1	1044.3
65°	409.0	412.9	420.9	420.9	448.7	540.0	667.1	734.6	714.7	706.8	591.6
67.5°	313.7	321.6	337.5	337.5	353.4	329.6	369.3	393.1	444.7	540.0	504.3
70°	246.2	250.2	262.1	270.0	270.0	238.2	266.0	289.9	325.6	401.0	397.1
72.5°	190.6	198.5	206.5	206.5	194.6	162.8	190.6	210.4	234.3	277.9	270.0
75°	146.9	146.9	150.9	123.1	95.3	83.4	115.1	139.0	174.7	182.7	150.9
77.5°	39.7	43.7	39.7	35.7	39.7	59.6	75.4	87.4	111.2	111.2	99.3
80°	0.0	4.0	11.9	23.8	39.7	55.6	67.5	75.4	87.4	95.3	91.3
82.5°	0.0	4.0	11.9	23.8	35.7	43.7	59.6	63.5	71.5	83.4	83.4
85°	0.0	4.0	7.9	15.9	23.8	27.8	27.8	23.8	23.8	19.9	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°	7865.9	7865.9	7865.9	7865.9	7865.9	7865.9	7865.9	7865.9	7865.9	7865.9	7865.9
2.5°	7905.6	7782.5	7595.9	7302.0	7020.1	6837.5	6662.8	6468.2	6361.0	6353.1	6293.5
5°	8000.9	7722.9	7278.2	6773.9	6233.9	5769.4	5300.8	4995.1	4721.1	4570.2	4542.4
7.5°	8052.5	7691.2	6972.5	6126.7	5205.5	4447.1	3923.0	3537.9	3387.0	3275.8	3271.8
10°	8159.7	7635.6	6515.9	5269.1	4129.5	3363.2	3001.8	2827.1	2743.7	2712.0	2664.3
12.5°	8239.1	7532.3	6047.3	4387.6	3263.9	2787.4	2628.6	2588.9	2592.8	2608.7	2588.9
15°	8350.3	7441.0	5416.0	3601.4	2739.8	2509.5	2509.5	2517.4	2573.0	2580.9	2577.0
17.5°	8342.4	7262.3	4764.8	2966.1	2422.1	2390.3	2402.3	2477.7	2513.4	2525.3	2497.5
20°	8437.7	7095.6	4093.8	2533.3	2243.4	2291.1	2370.5	2390.3	2434.0	2442.0	2410.2
22.5°	8409.9	6678.7	3470.4	2191.8	2108.4	2199.7	2279.2	2303.0	2291.1	2267.2	2263.3
25°	8358.2	6321.3	2898.6	1965.5	2009.2	2108.4	2183.9	2140.2	2116.4	2120.3	2124.3
27.5°	8266.9	5868.6	2426.1	1806.7	1874.2	2021.1	2017.1	2001.2	2025.0	2005.2	2025.0
30°	8251.0	5416.0	2036.9	1663.7	1774.9	1882.1	1890.0	1917.8	1945.6	1909.9	1945.6
32.5°	8274.9	4919.7	1759.0	1576.4	1715.3	1719.3	1806.7	1834.4	1814.6	1735.2	1743.1
35°	8457.5	4538.5	1556.5	1528.7	1620.0	1624.0	1707.4	1671.6	1584.3	1536.6	1564.4
37.5°	8842.7	4220.8	1461.2	1485.0	1493.0	1544.6	1548.6	1477.1	1485.0	1481.1	1496.9
40°	9335.0	3978.6	1393.7	1445.3	1437.4	1473.1	1330.2	1369.9	1405.6	1417.5	1425.5
42.5°	9672.5	3803.9	1350.0	1381.8	1365.9	1302.4	1223.0	1262.7	1290.5	1334.1	1342.1
45°	9823.4	3664.9	1298.4	1270.6	1270.6	1155.5	1123.7	1131.6	1195.2	1242.8	1234.9
47.5°	9577.2	3529.9	1207.1	1123.7	1151.5	1056.2	1020.5	1020.5	1088.0	1147.5	1135.6
48°	9481.9	3474.3	1211.1	1091.9	1111.8	1040.3	1004.6	996.6	1072.1	1127.7	1127.7
50°	9009.4	3267.9	1107.8	1004.6	964.9	956.9	933.1	941.0	988.7	1040.3	1040.3
52.5°	8088.2	2823.1	937.1	861.6	790.2	837.8	849.7	833.8	857.7	905.3	901.3
55°	6750.1	2168.0	750.5	714.7	659.1	710.7	734.6	714.7	690.9	726.6	726.6
57.5°	4324.1	1167.4	599.6	607.5	551.9	603.5	623.4	575.7	532.1	559.9	555.9
60°	1949.6	698.8	492.4	480.5	444.7	504.3	536.0	480.5	420.9	440.7	460.6
62.5°	730.6	496.3	373.2	365.3	357.4	412.9	428.8	385.2	325.6	337.5	341.5
65°	536.0	436.8	297.8	270.0	285.9	325.6	317.7	274.0	234.3	234.3	242.2
67.5°	456.6	381.2	242.2	210.4	210.4	214.4	198.5	174.7	162.8	170.7	178.7
70°	357.4	301.8	190.6	162.8	146.9	131.0	115.1	111.2	99.3	111.2	107.2
72.5°	230.3	202.5	146.9	123.1	111.2	91.3	75.4	71.5	59.6	55.6	55.6
75°	123.1	123.1	115.1	99.3	87.4	71.5	59.6	47.6	31.8	23.8	23.8
77.5°	87.4	95.3	103.2	95.3	79.4	59.6	47.6	31.8	15.9	7.9	7.9
80°	83.4	95.3	103.2	91.3	79.4	59.6	43.7	23.8	11.9	4.0	4.0
82.5°	75.4	87.4	95.3	83.4	71.5	51.6	39.7	23.8	11.9	4.0	4.0
85°	15.9	19.9	23.8	23.8	27.8	35.7	27.8	19.9	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)