

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: P531919

Luminaire Tested: **GALN-SA7B-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531919
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-SA7B-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 26926 lumens
Efficiency: N/A
Efficacy: 94.1 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

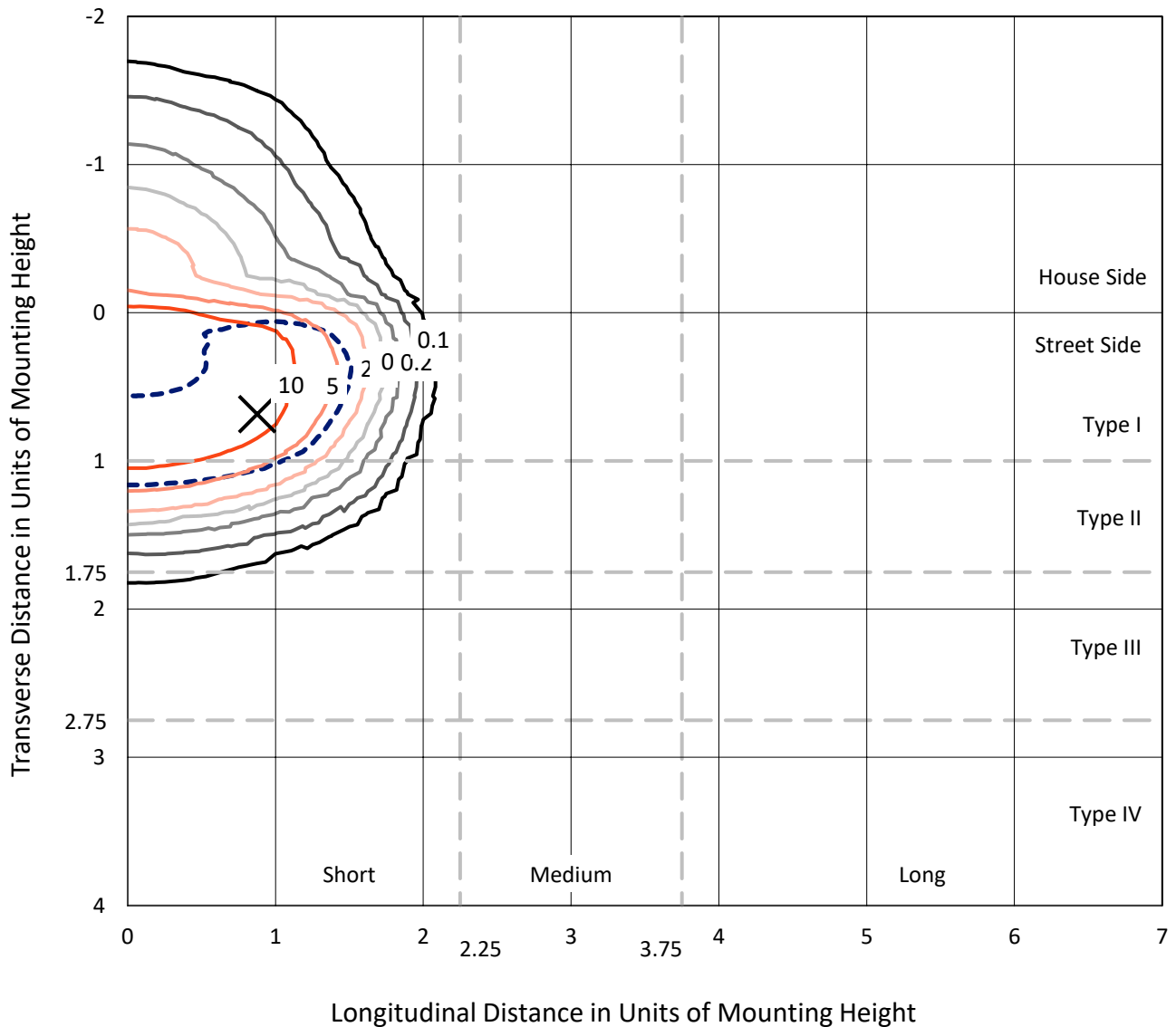
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

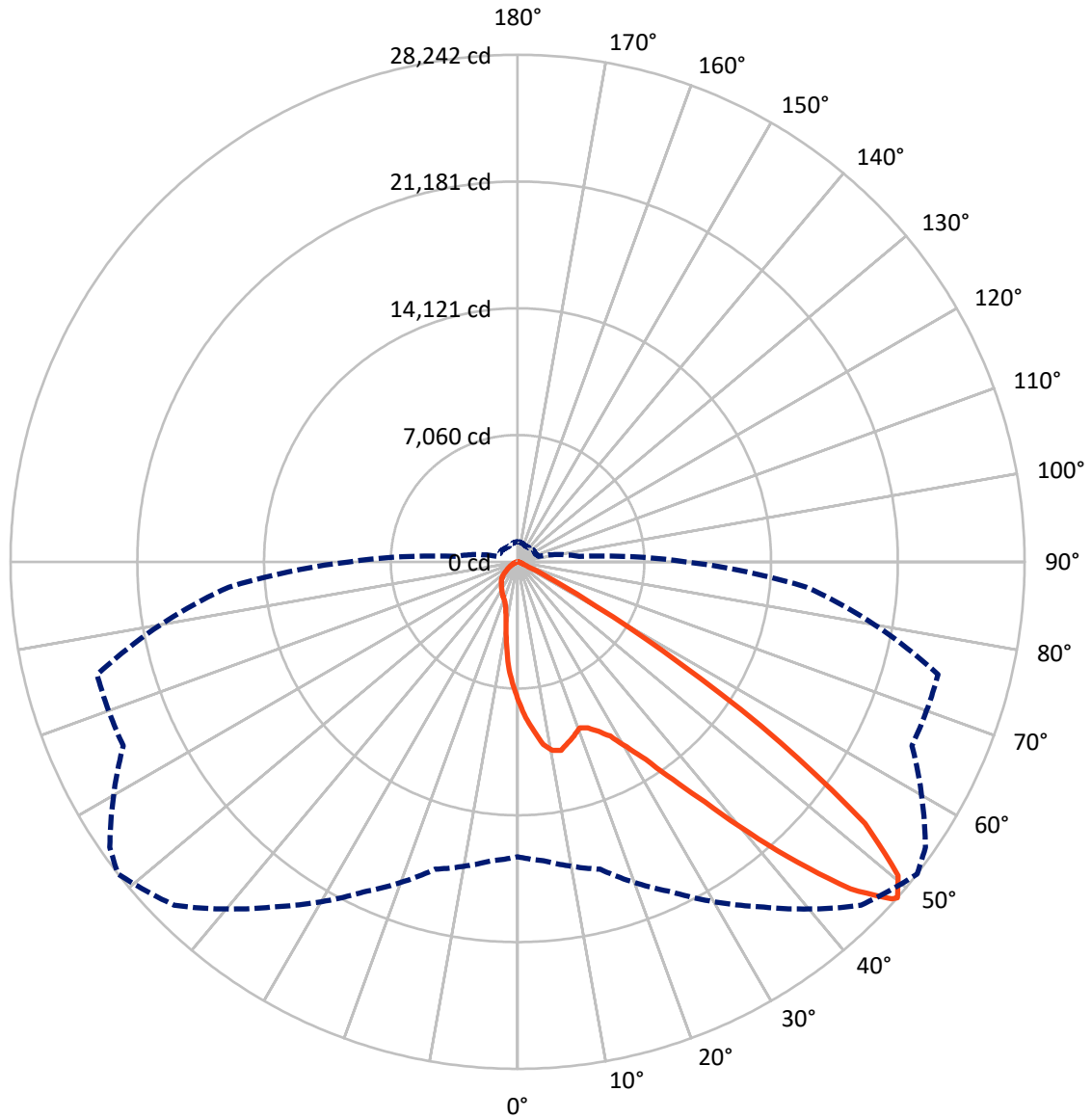
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3278.5	0.0	3278.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	23647.6	0.0	23647.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	26926.0	0.0	26926.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	711.7	2.6
10°-20°	1859.9	6.9
20°-30°	3175.7	11.8
30°-40°	5848.0	21.7
40°-50°	9082.0	33.7
50°-60°	5465.8	20.3
60°-70°	632.2	2.3
70°-80°	122.4	0.5
80°-90°	28.3	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°	26926.0	100.0
0°-180°	26926.0	100.0

Coefficient of Utilization



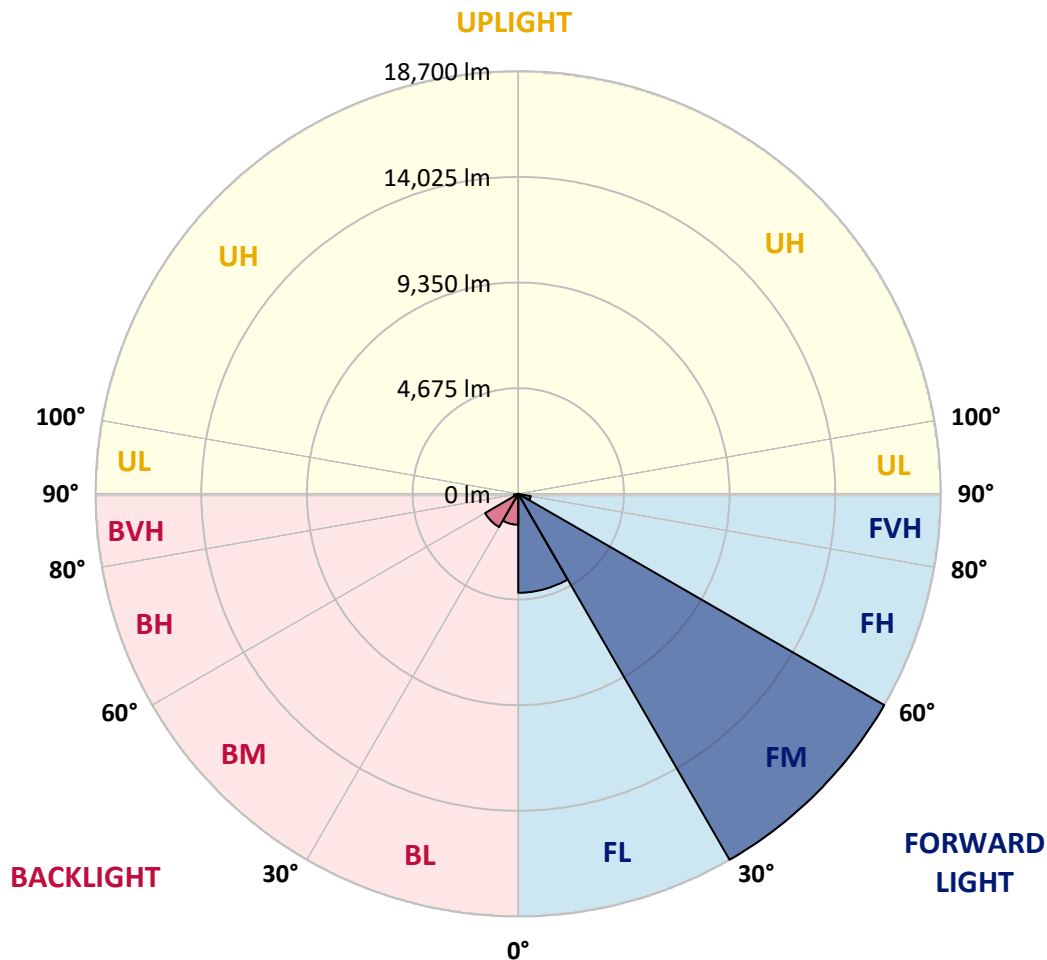
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4377.8	16.3			
FM (30°-60°)	18699.6	69.4			
FH (60°-80°)	556.7	2.1			G0/660
FVH (80°-90°)	13.5	0.1			G1/100
BL (0°-30°)	1369.5	5.1	B3/2500		
BM (30°-60°)	1696.2	6.3	B2/2500		
BH (60°-80°)	197.9	0.7	B1/500		G1/500
BVH (80°-90°)	14.8	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°	7775.8	7775.8	7775.8	7775.8	7775.8	7775.8	7775.8	7775.8	7775.8	7775.8	7775.8
2.5°	9424.4	9208.5	9228.1	9086.8	9004.4	8870.9	8690.3	8655.0	8458.8	8191.9	7921.0
5°	10272.2	10221.2	10287.9	10083.8	10091.6	9871.8	9447.9	9455.8	9004.4	8568.7	8148.7
7.5°	10327.1	10209.4	10276.1	10456.7	10562.7	10523.4	10284.0	10075.9	9648.1	9008.3	8396.0
10°	9247.7	9471.5	9542.1	9840.4	10264.3	10711.8	10684.3	10696.1	10338.9	9502.9	8607.9
12.5°	8600.1	8450.9	8690.3	8870.9	9510.7	10378.2	10774.6	10861.0	10888.4	9981.7	8819.9
15°	8305.7	8305.7	8344.9	8396.0	8859.1	9659.9	10468.5	10719.7	11312.4	10609.8	9153.5
17.5°	8490.2	8482.3	8537.3	8431.3	8604.0	9220.2	10185.8	10472.4	11787.3	11226.0	9416.5
20°	9051.5	9078.9	9043.6	8737.5	8749.2	9212.4	9871.8	10323.2	12109.2	11759.8	9765.8
22.5°	9832.6	9848.3	9648.1	9314.5	9216.3	9444.0	10052.4	10397.8	12368.2	12399.6	9871.8
25°	10735.4	10672.6	10633.3	10162.3	9864.0	10060.2	10460.6	10660.8	12529.2	12949.2	10174.1
27.5°	11987.5	11861.9	11622.5	11202.5	10982.7	10704.0	10990.5	11320.2	12988.4	13718.5	10503.8
30°	13836.3	13726.4	13259.3	12717.6	12140.6	11865.8	11956.1	12136.7	13816.6	14609.5	10939.5
32.5°	16619.2	16387.6	15712.5	14680.2	13895.1	13137.6	13114.0	13306.4	14558.5	15842.0	11457.6
35°	19684.8	19614.1	18621.1	17557.3	16038.3	14868.6	14888.2	14990.3	15979.4	17459.2	12136.7
37.5°	21721.9	22110.5	21478.6	20336.4	19060.7	17388.5	16964.6	17000.0	17930.2	19374.7	13361.3
40°	23295.9	22966.2	23040.8	22773.9	21902.5	20764.2	19826.1	19641.6	20187.2	21494.3	14578.1
42.5°	22609.0	22624.7	23084.0	23715.9	23931.8	23849.4	22891.6	22542.3	22118.4	23229.2	15736.0
45°	20670.0	21074.3	21670.9	23343.0	24811.1	26188.8	26000.4	25419.5	23453.0	24603.0	16403.3
47.5°	17577.0	17561.3	18538.6	20713.2	23975.0	27201.5	28057.2	27649.0	24398.9	24449.9	16265.9
48°	16434.7	16717.3	17726.1	20285.3	23445.1	27052.3	28241.7	27727.5	24238.0	24245.8	16148.2
50°	12148.4	12097.4	13353.5	16493.6	20940.8	25419.5	27464.5	27864.9	24234.1	23213.5	15323.9
52.5°	6417.7	6637.5	7552.0	10370.3	14805.8	20803.5	24226.2	24850.3	23378.4	21525.7	14138.5
55°	2728.0	2465.0	3167.6	4682.7	8329.2	13899.1	17773.2	19162.7	19767.2	19048.9	12368.2
57.5°	973.4	1063.7	1224.7	1762.4	3501.3	7607.0	10598.0	11677.4	13695.0	13977.6	8427.4
60°	624.1	635.9	686.9	808.6	1314.9	2932.1	5028.2	5887.8	6802.3	7022.1	3933.0
62.5°	482.8	486.7	510.3	529.9	624.1	1138.3	1888.0	2237.4	2323.7	1997.9	1032.3
65°	404.3	408.2	416.1	416.1	443.5	533.8	659.4	726.2	706.5	698.7	584.9
67.5°	310.1	317.9	333.6	333.6	349.3	325.8	365.0	388.6	439.6	533.8	498.5
70°	243.4	247.3	259.1	266.9	266.9	235.5	263.0	286.5	321.9	396.4	392.5
72.5°	188.4	196.3	204.1	204.1	192.3	160.9	188.4	208.0	231.6	274.8	266.9
75°	145.2	145.2	149.2	121.7	94.2	82.4	113.8	137.4	172.7	180.6	149.2
77.5°	39.3	43.2	39.3	35.3	39.3	58.9	74.6	86.4	109.9	109.9	98.1
80°	0.0	3.9	11.8	23.6	39.3	55.0	66.7	74.6	86.4	94.2	90.3
82.5°	0.0	3.9	11.8	23.6	35.3	43.2	58.9	62.8	70.7	82.4	82.4
85°	0.0	3.9	7.9	15.7	23.6	27.5	27.5	23.6	23.6	19.6	15.7
87.5°	0.0	0.0	3.9	7.9	7.9	11.8	11.8	11.8	11.8	11.8	11.8
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°	7775.8	7775.8	7775.8	7775.8	7775.8	7775.8	7775.8	7775.8	7775.8	7775.8	7775.8
2.5°	7815.0	7693.4	7508.9	7218.4	6939.7	6759.2	6586.5	6394.1	6288.1	6280.3	6221.4
5°	7909.2	7634.5	7194.9	6696.4	6162.5	5703.3	5240.1	4937.9	4667.0	4517.9	4490.4
7.5°	7960.3	7603.1	6892.6	6056.6	5145.9	4396.2	3878.1	3497.3	3348.2	3238.3	3234.3
10°	8066.2	7548.1	6441.2	5208.7	4082.2	3324.6	2967.4	2794.7	2712.3	2680.9	2633.8
12.5°	8144.7	7446.1	5978.0	4337.3	3226.5	2755.5	2598.5	2559.2	2563.1	2578.8	2559.2
15°	8254.7	7355.8	5353.9	3560.1	2708.4	2480.7	2480.7	2488.6	2543.5	2551.4	2547.4
17.5°	8246.8	7179.2	4710.2	2932.1	2394.4	2363.0	2374.7	2449.3	2484.6	2496.4	2468.9
20°	8341.0	7014.3	4046.9	2504.3	2217.7	2264.8	2343.3	2363.0	2406.1	2414.0	2382.6
22.5°	8313.5	6602.2	3430.6	2166.7	2084.3	2174.5	2253.1	2276.6	2264.8	2241.3	2237.4
25°	8262.5	6248.9	2865.4	1943.0	1986.1	2084.3	2158.8	2115.7	2092.1	2096.0	2100.0
27.5°	8172.2	5801.4	2398.3	1786.0	1852.7	1997.9	1994.0	1978.3	2001.8	1982.2	2001.8
30°	8156.5	5353.9	2013.6	1644.7	1754.6	1860.5	1868.4	1895.9	1923.3	1888.0	1923.3
32.5°	8180.1	4863.3	1738.9	1558.3	1695.7	1699.6	1786.0	1813.4	1793.8	1715.3	1723.2
35°	8360.6	4486.5	1538.7	1511.2	1601.5	1605.4	1687.8	1652.5	1566.1	1519.0	1546.5
37.5°	8741.4	4172.5	1444.5	1468.0	1475.9	1526.9	1530.8	1460.2	1468.0	1464.1	1479.8
40°	9228.1	3933.0	1377.7	1428.8	1420.9	1456.2	1314.9	1354.2	1389.5	1401.3	1409.1
42.5°	9561.7	3760.3	1334.6	1366.0	1350.3	1287.5	1209.0	1248.2	1275.7	1318.9	1326.7
45°	9710.9	3622.9	1283.5	1256.1	1256.1	1142.2	1110.8	1118.7	1181.5	1228.6	1220.7
47.5°	9467.5	3489.5	1193.3	1110.8	1138.3	1044.1	1008.8	1008.8	1075.5	1134.4	1122.6
48°	9373.3	3434.5	1197.2	1079.4	1099.1	1028.4	993.1	985.2	1059.8	1114.8	1114.8
50°	8906.2	3230.4	1095.1	993.1	953.8	946.0	922.4	930.3	977.4	1028.4	1028.4
52.5°	7995.6	2790.8	926.3	851.8	781.1	828.2	840.0	824.3	847.8	894.9	891.0
55°	6672.8	2143.1	741.9	706.5	651.6	702.6	726.2	706.5	683.0	718.3	718.3
57.5°	4274.5	1154.0	592.7	600.6	545.6	596.6	616.3	569.2	526.0	553.5	549.5
60°	1927.3	690.8	486.7	474.9	439.6	498.5	529.9	474.9	416.1	435.7	455.3
62.5°	722.2	490.6	369.0	361.1	353.3	408.2	423.9	380.7	321.9	333.6	337.6
65°	529.9	431.8	294.4	266.9	282.6	321.9	314.0	270.8	231.6	231.6	239.4
67.5°	451.4	376.8	239.4	208.0	208.0	212.0	196.3	172.7	160.9	168.8	176.6
70°	353.3	298.3	188.4	160.9	145.2	129.5	113.8	109.9	98.1	109.9	106.0
72.5°	227.7	200.2	145.2	121.7	109.9	90.3	74.6	70.7	58.9	55.0	55.0
75°	121.7	121.7	113.8	98.1	86.4	70.7	58.9	47.1	31.4	23.6	23.6
77.5°	86.4	94.2	102.1	94.2	78.5	58.9	47.1	31.4	15.7	7.9	7.9
80°	82.4	94.2	102.1	90.3	78.5	58.9	43.2	23.6	11.8	3.9	3.9
82.5°	74.6	86.4	94.2	82.4	70.7	51.0	39.3	23.6	11.8	3.9	3.9
85°	15.7	19.6	23.6	23.6	27.5	35.3	27.5	19.6	7.9	3.9	3.9
87.5°	11.8	11.8	11.8	11.8	11.8	11.8	7.9	7.9	3.9	3.9	3.9
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)