

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: P530689

Luminaire Tested: **GALN-SA5D-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
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-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18722 lumens
Efficiency: N/A
Efficacy: 60.6 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): 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



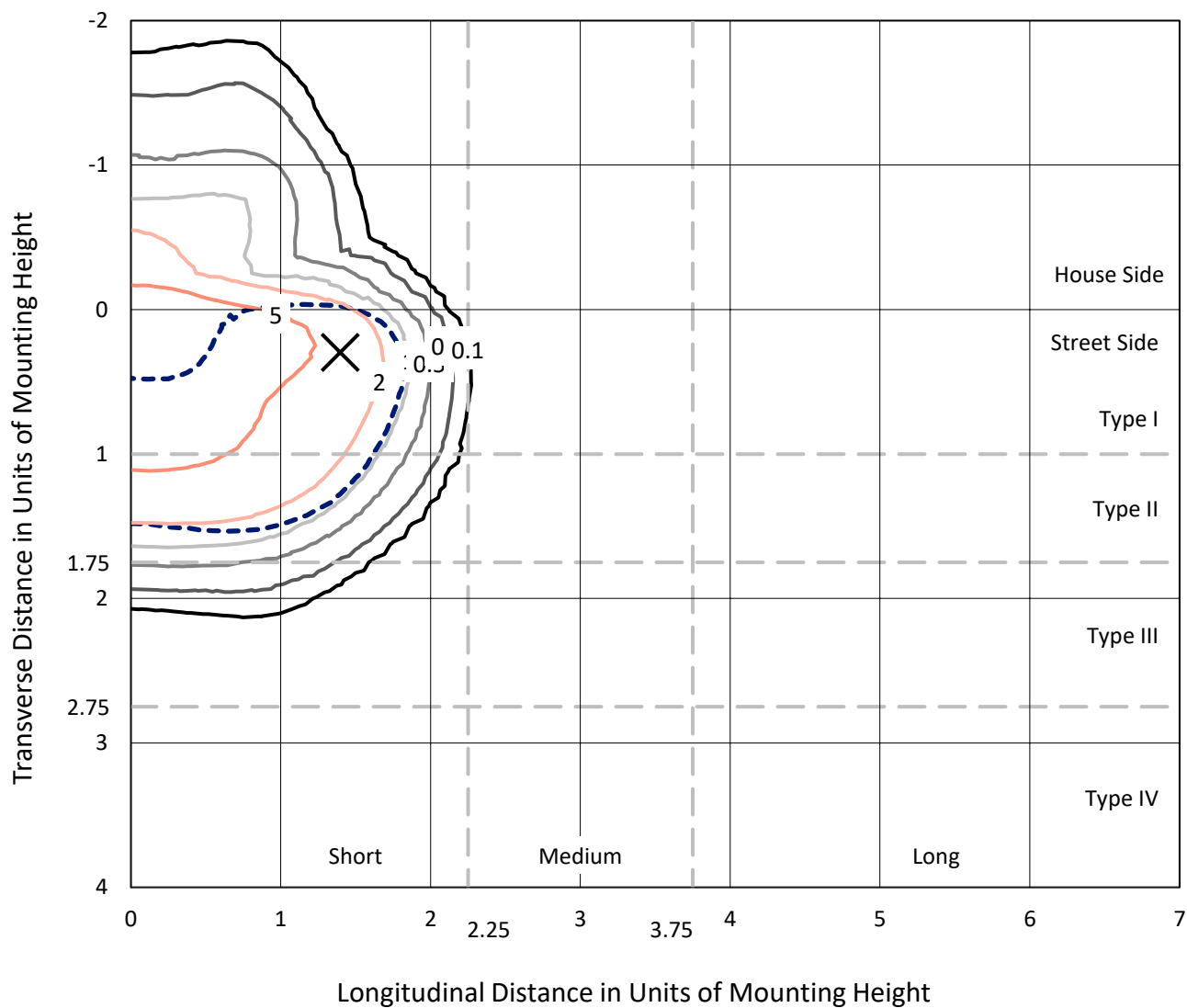
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

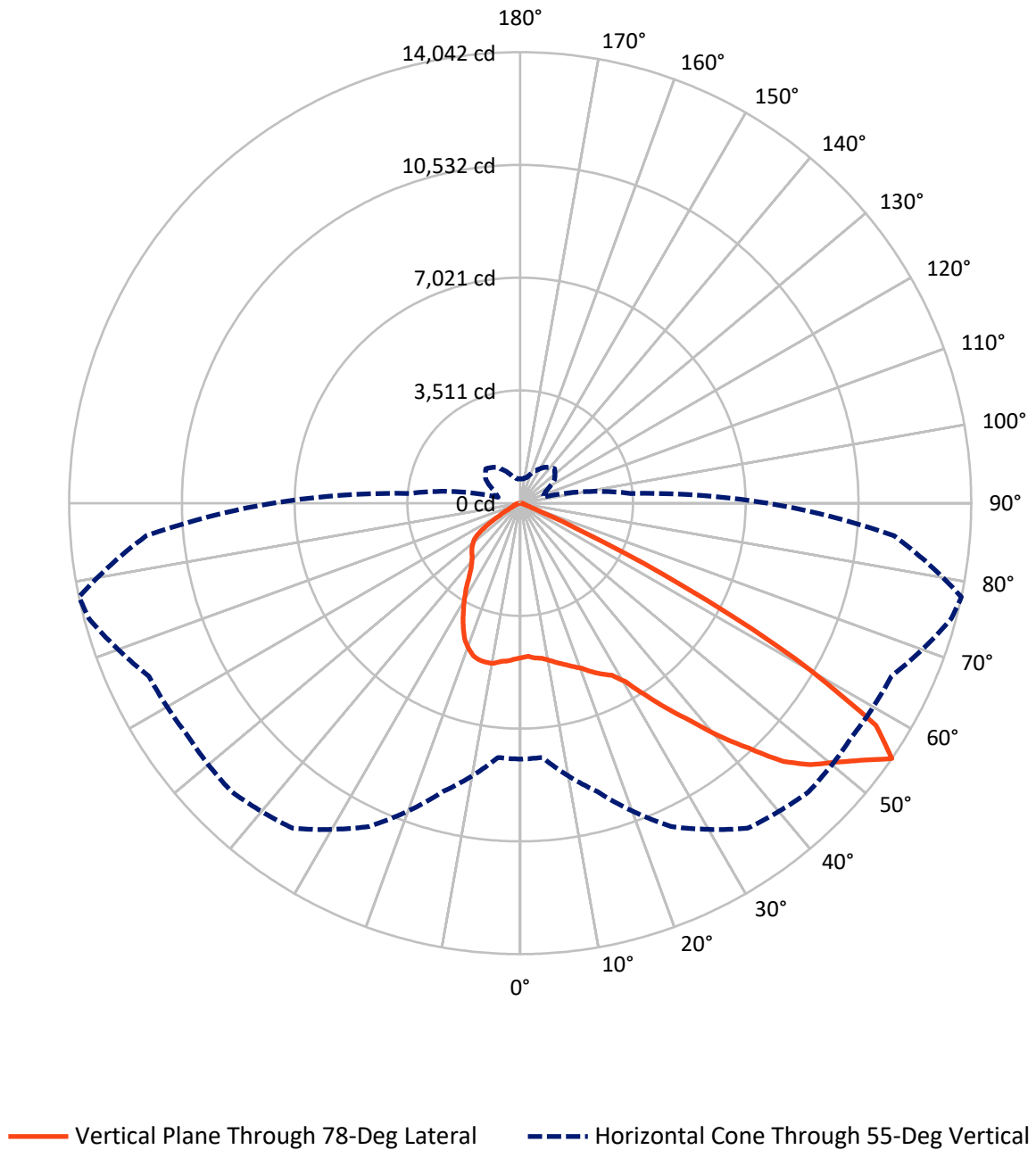


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3477.4	0.0	3477.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	15244.6	0.0	15244.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	18722.0	0.0	18722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.2	2.3
10°-20°	1135.9	6.1
20°-30°	1991.0	10.6
30°-40°	3283.0	17.5
40°-50°	4777.1	25.5
50°-60°	5413.0	28.9
60°-70°	1547.7	8.3
70°-80°	120.2	0.6
80°-90°	25.0	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°	18722.0	100.0
0°-180°	18722.0	100.0

Coefficient of Utilization



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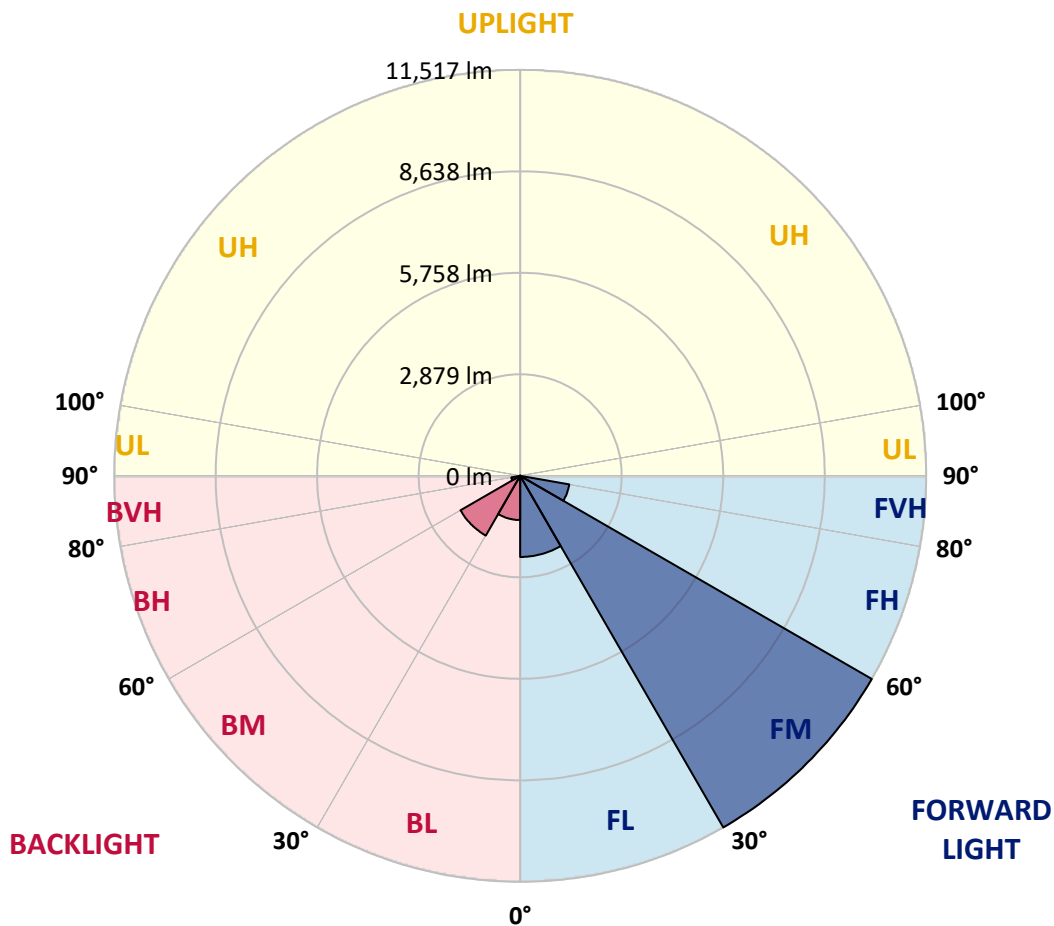
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2301.5	12.3			
FM	(30°-60°)	11516.9	61.5			
FH	(60°-80°)	1414.0	7.6			G1/1800
FVH	(80°-90°)	12.2	0.1			G1/100
BL	(0°-30°)	1254.7	6.7	B3/2500		
BM	(30°-60°)	1956.1	10.4	B2/2500		
BH	(60°-80°)	253.8	1.4	B1/500		G1/500
BVH	(80°-90°)	12.8	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°	55°	65°	75°	78°	85°
0°	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4
2.5°	4525.6	4569.1	4575.8	4629.3	4626.0	4716.4	4743.1	4746.5	4806.7	4776.6	4853.6
5°	4398.4	4374.9	4364.9	4458.6	4485.4	4565.7	4632.7	4672.9	4796.7	4840.2	4920.6
7.5°	4284.6	4284.6	4291.3	4374.9	4364.9	4468.7	4539.0	4662.8	4843.6	4880.4	4977.5
10°	4174.1	4133.9	4184.1	4271.2	4344.8	4391.7	4539.0	4656.1	4867.0	4974.1	5108.0
12.5°	4117.2	4137.3	4144.0	4207.6	4287.9	4428.5	4508.8	4703.0	5034.4	5098.0	5241.9
15°	4475.4	4435.2	4338.1	4281.2	4348.2	4415.1	4615.9	4813.4	5121.4	5211.8	5372.4
17.5°	4890.4	4857.0	4776.6	4622.6	4472.0	4595.9	4753.2	4933.9	5215.1	5349.0	5586.7
20°	5432.7	5379.1	5298.8	4997.5	4867.0	4733.1	4900.5	5114.7	5369.1	5489.6	5733.9
22.5°	6078.7	6078.7	5898.0	5533.1	5262.0	5134.8	5205.1	5328.9	5539.8	5703.8	5944.8
25°	6751.5	6731.4	6567.4	6189.2	5730.6	5580.0	5660.3	5747.3	5804.2	5894.6	6055.3
27.5°	7521.4	7404.3	7196.7	6778.3	6373.3	6082.1	6169.1	6092.1	6021.8	6068.7	6299.6
30°	8043.6	8117.2	7852.8	7451.1	7069.5	6744.8	6761.6	6694.6	6373.3	6440.2	6577.5
32.5°	8585.9	8632.7	8485.4	8264.5	7882.9	7504.7	7367.4	7310.5	7069.5	7099.7	6965.8
35°	9037.7	9128.1	8997.6	8900.5	8790.0	8485.4	8107.2	8291.3	7903.0	7829.4	7481.2
37.5°	9452.8	9426.0	9580.0	9479.6	9456.2	9241.9	8826.9	8863.7	8602.6	8585.9	8184.2
40°	9824.4	9831.1	10041.9	10088.8	9995.1	9613.5	9011.0	9302.2	9513.1	9533.1	9017.7
42.5°	10132.3	10222.7	10403.5	10781.7	10641.1	10005.1	9201.8	9519.8	10303.0	10426.9	9807.6
45°	10400.1	10584.2	10808.5	11146.6	11066.2	10560.8	9677.1	9968.3	11146.6	11471.2	10550.7
47.5°	10416.8	10657.8	10902.2	11404.3	11504.7	10858.7	10169.1	10677.9	11816.0	12167.5	11093.0
50°	10349.9	10477.1	10965.8	11511.4	11739.0	11344.0	10858.7	11273.8	12465.4	12686.3	11367.5
52.5°	9556.6	9653.7	10634.4	11611.8	12160.8	11893.0	11772.5	12103.9	13128.2	13292.2	11625.2
55°	7966.6	7949.9	9298.8	11106.4	12354.9	12706.4	12632.8	12749.9	13894.7	14042.0	11688.8
57.5°	5449.4	5754.0	6918.9	9248.6	11166.6	12515.6	12592.6	12398.5	13001.0	13057.9	10189.2
60°	2938.9	3066.1	4003.4	6172.4	8502.2	10199.3	10400.1	10048.6	10001.8	9841.1	7273.7
62.5°	1168.2	1231.8	1764.0	3056.1	4632.7	6199.2	6631.0	6487.1	6179.1	5757.4	3765.7
65°	555.7	595.8	877.0	1429.3	2055.3	2584.1	3015.9	3149.8	2323.0	2092.1	1241.9
67.5°	378.2	408.4	639.3	816.7	733.1	766.5	997.5	927.2	545.6	465.3	344.8
70°	287.9	308.0	512.1	555.7	328.0	231.0	257.7	241.0	224.3	227.6	224.3
72.5°	204.2	220.9	374.9	328.0	143.9	107.1	137.2	164.0	164.0	164.0	160.7
75°	123.9	140.6	217.6	127.2	56.9	56.9	87.0	110.5	117.2	120.5	113.8
77.5°	63.6	80.3	73.6	36.8	36.8	43.5	63.6	77.0	83.7	83.7	80.3
80°	13.4	13.4	13.4	20.1	36.8	46.9	63.6	70.3	80.3	80.3	73.6
82.5°	0.0	3.3	10.0	20.1	33.5	43.5	60.3	70.3	80.3	83.7	77.0
85°	0.0	3.3	6.7	13.4	23.4	26.8	23.4	20.1	20.1	20.1	20.1
87.5°	0.0	0.0	3.3	3.3	3.3	6.7	6.7	6.7	6.7	6.7	6.7
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°	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4
2.5°	4860.3	4870.3	4853.6	4850.3	4836.9	4877.0	4780.0	4756.5	4816.8	4759.9	4773.3
5°	4923.9	4947.3	4917.2	4867.0	4793.4	4679.5	4582.5	4455.3	4395.0	4351.5	4344.8
7.5°	4970.8	4987.5	4957.4	4796.7	4575.8	4287.9	4073.7	3916.4	3792.5	3755.7	3695.4
10°	5161.6	5164.9	5014.3	4659.5	4227.7	3849.4	3521.4	3280.4	3156.5	3079.5	3046.1
12.5°	5288.8	5282.1	4977.5	4388.3	3812.6	3310.5	2935.6	2644.4	2530.6	2493.7	2470.3
15°	5449.4	5412.6	4890.4	4110.5	3277.0	2734.8	2396.7	2195.8	2185.8	2162.4	2185.8
17.5°	5576.6	5472.9	4763.2	3605.1	2764.9	2252.7	2031.8	2045.2	2072.0	2095.4	2098.8
20°	5784.2	5569.9	4472.0	3163.2	2289.6	1931.4	1928.1	1988.3	2055.3	2082.0	2108.8
22.5°	5941.5	5610.1	4160.7	2691.2	1901.3	1800.9	1857.8	1948.1	1998.3	2025.1	2065.3
25°	5998.4	5499.6	3745.6	2219.3	1713.8	1740.6	1827.6	1887.9	1951.5	1981.6	1964.9
27.5°	6055.3	5442.7	3250.2	1827.6	1613.4	1700.4	1774.1	1834.3	1854.4	1894.6	1921.4
30°	6192.5	5245.2	2805.0	1579.9	1563.2	1673.7	1727.2	1747.3	1800.9	1824.3	1824.3
32.5°	6303.0	5168.3	2333.1	1462.8	1556.5	1687.0	1693.7	1693.7	1700.4	1683.7	1677.0
35°	6530.6	4903.8	1911.3	1392.5	1553.2	1690.4	1707.1	1650.2	1496.2	1436.0	1419.3
37.5°	6811.8	4733.1	1600.0	1375.7	1576.6	1730.6	1757.3	1543.1	1342.3	1245.2	1228.5
40°	7153.2	4612.6	1395.8	1369.1	1630.1	1824.3	1744.0	1459.4	1198.3	1057.8	1051.1
42.5°	7551.5	4502.1	1258.6	1365.7	1697.1	1921.4	1730.6	1389.1	1051.1	957.3	970.7
45°	7869.5	4441.9	1164.9	1342.3	1720.5	1978.3	1740.6	1265.3	990.8	930.6	937.2
47.5°	8117.2	4314.7	1087.9	1302.1	1717.2	1998.3	1650.2	1215.1	960.7	977.4	994.2
50°	8123.9	4144.0	990.8	1215.1	1667.0	1961.5	1546.5	1168.2	954.0	1024.3	1057.8
52.5°	8033.6	3903.0	887.0	1091.2	1549.8	1834.3	1452.7	1148.1	923.9	917.2	957.3
55°	7712.2	3451.1	713.0	883.7	1308.8	1513.0	1369.1	1111.3	833.5	756.5	763.2
57.5°	6232.7	2473.7	525.5	632.6	927.2	1108.0	1235.2	1094.6	749.8	642.7	646.0
60°	3859.5	1402.5	384.9	431.8	572.4	672.8	1000.8	1017.6	669.5	542.3	535.6
62.5°	1981.6	692.9	297.9	304.6	351.5	395.0	686.2	853.6	605.9	515.5	515.5
65°	662.8	341.4	261.1	234.3	234.3	244.4	415.1	592.5	512.1	431.8	431.8
67.5°	284.5	254.4	227.6	204.2	187.4	177.4	234.3	344.8	381.6	328.0	314.6
70°	220.9	214.2	197.5	170.7	147.3	133.9	137.2	177.4	217.6	210.9	204.2
72.5°	164.0	164.0	157.3	133.9	113.8	97.1	90.4	93.7	103.8	107.1	110.5
75°	113.8	117.2	117.2	103.8	83.7	70.3	60.3	50.2	40.2	33.5	30.1
77.5°	77.0	80.3	87.0	77.0	63.6	46.9	36.8	26.8	16.7	6.7	6.7
80°	66.9	77.0	83.7	77.0	66.9	50.2	36.8	20.1	10.0	0.0	0.0
82.5°	70.3	77.0	87.0	73.6	63.6	46.9	36.8	23.4	10.0	3.3	0.0
85°	16.7	16.7	20.1	23.4	30.1	33.5	26.8	16.7	10.0	3.3	0.0
87.5°	6.7	6.7	6.7	6.7	6.7	3.3	3.3	3.3	3.3	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)