

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: P531544

Luminaire Tested: **GALN-SA6D-750-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-750-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40311 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

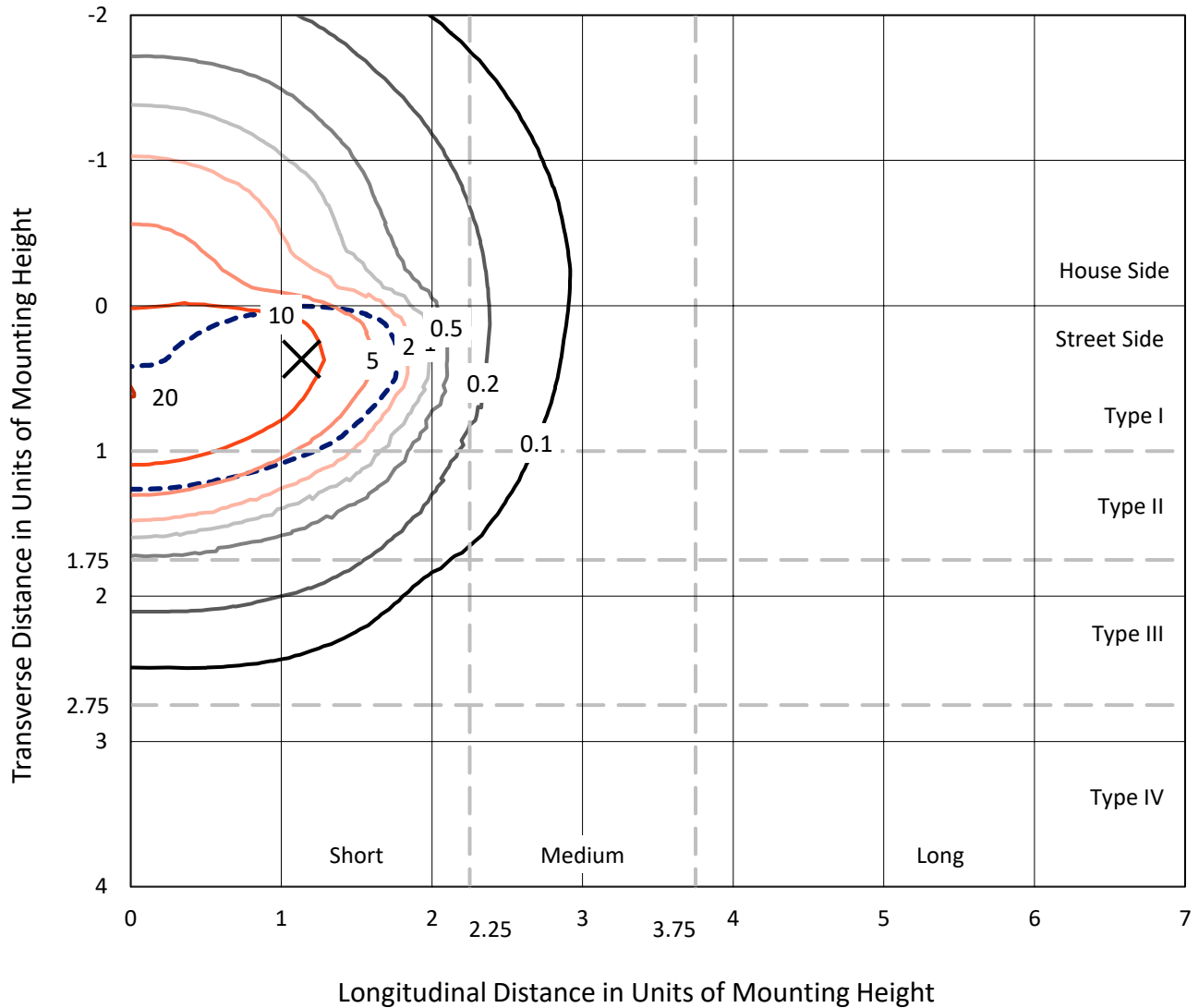
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

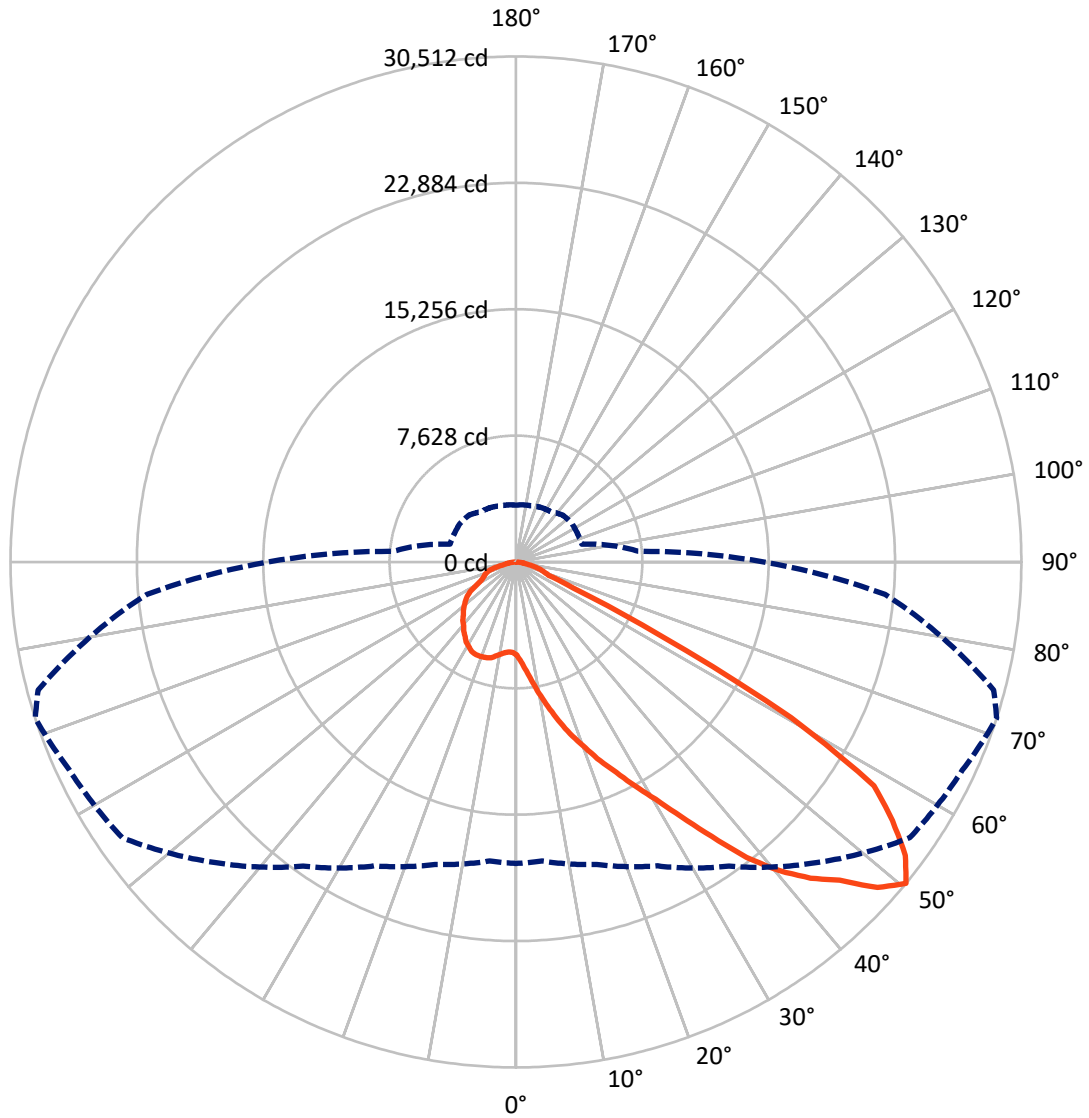
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9235.5	0.0	9235.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	31075.5	0.0	31075.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	40311.0	0.0	40311.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.1	1.6
10°-20°	2467.6	6.1
20°-30°	4784.4	11.9
30°-40°	7926.2	19.7
40°-50°	11090.4	27.5
50°-60°	9356.2	23.2
60°-70°	2851.7	7.1
70°-80°	1000.5	2.5
80°-90°	173.9	0.4
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°	40311.0	100.0
0°-180°	40311.0	100.0

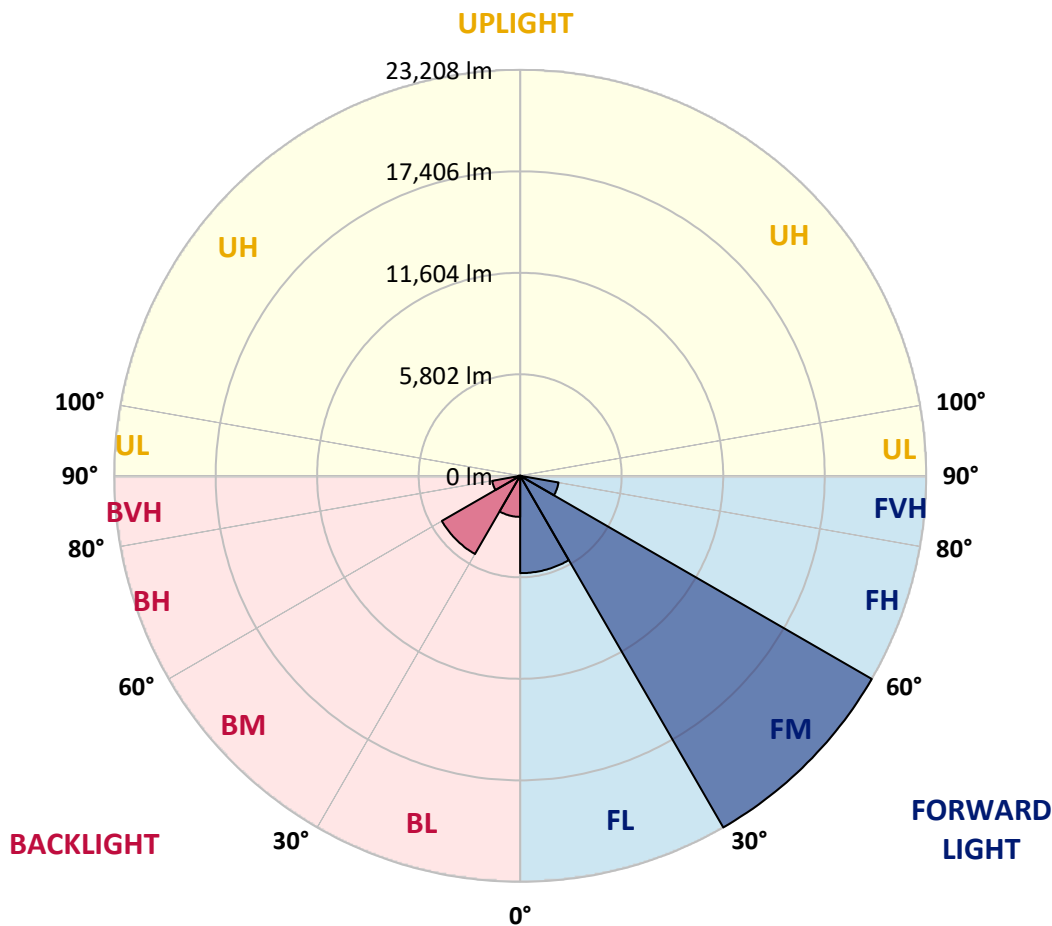


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5564.4	13.8			
FM (30°-60°)	23208.1	57.6			
FH (60°-80°)	2225.1	5.5			G2/5000
FVH (80°-90°)	77.9	0.2			G1/100
BL (0°-30°)	2347.7	5.8	B3/2500		
BM (30°-60°)	5164.6	12.8	B4/8500		
BH (60°-80°)	1627.1	4.0	B3/2500		G3/2500
BVH (80°-90°)	96.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5611.6	5611.6	5611.6	5611.6	5611.6	5611.6	5611.6	5611.6	5611.6	5611.6	5611.6
2.5°	7217.8	7172.9	7038.2	6993.3	6833.7	6544.4	6444.7	6150.4	6025.6	5910.9	5776.2
5°	9128.3	8918.8	8903.8	8649.4	8280.3	8065.8	7427.3	6998.3	6604.3	6404.7	6035.6
7.5°	10345.4	10350.3	10350.3	10140.8	9846.5	9302.8	8729.2	7956.1	7362.5	7068.2	6439.7
10°	11502.6	11402.8	11348.0	11328.0	11128.5	10599.8	9986.2	9028.5	8215.4	7871.3	6743.9
12.5°	12320.7	12235.9	12360.6	12295.7	12151.1	11806.9	11228.3	10135.9	9118.3	8654.4	7232.8
15°	12709.7	12769.6	12869.3	13048.9	12984.1	12854.4	12215.9	11273.2	10091.0	9567.2	7666.7
17.5°	13308.3	13143.7	13263.4	13487.9	13667.4	13607.6	13243.5	12096.2	11053.7	10410.2	8250.4
20°	13727.3	13632.5	13692.4	13951.8	14086.5	14425.6	14236.1	13173.6	11976.5	11298.1	8938.7
22.5°	14924.5	14784.8	14590.3	14630.2	14680.0	14919.5	14964.4	14355.8	13048.9	12330.6	9592.2
25°	16400.9	16271.2	16041.8	15807.4	15662.7	15617.8	15772.4	15283.6	14076.5	13333.2	10295.5
27.5°	18027.1	17807.6	17662.9	17179.1	16790.0	16730.2	16655.3	16391.0	15293.6	14490.5	11088.6
30°	19608.3	19433.7	19239.2	18466.0	18062.0	17997.1	17628.0	17702.8	16615.4	15722.6	11986.5
32.5°	20805.4	20820.4	20376.5	19792.9	19413.8	19069.6	18934.9	19149.4	18311.4	17593.1	12989.1
35°	21773.1	21818.0	21394.0	20865.3	20456.3	20695.7	20635.9	20735.6	20336.6	19458.7	14156.3
37.5°	22715.9	22491.4	22037.5	21783.1	21568.6	21962.7	22471.5	22556.3	22631.1	21598.6	15513.1
40°	22870.5	22890.5	22626.1	22805.7	22536.3	23129.9	24312.1	24202.4	24506.6	23603.8	16984.5
42.5°	22651.1	22695.9	22800.7	23055.1	23703.5	24416.8	26172.7	25723.7	26092.9	25289.8	18416.1
45°	22291.9	22107.3	22237.0	23204.7	24327.1	25913.3	27873.6	27524.4	27404.7	26731.3	20122.1
47.5°	20576.0	20765.5	21169.6	22361.7	24047.7	26172.7	29080.7	29000.9	29360.1	28886.2	21673.4
50°	18196.7	18121.8	18900.0	20241.8	22416.6	25663.9	29015.9	29739.2	30512.3	29853.9	22366.7
52.5°	13627.5	14026.6	14695.0	16361.0	19463.6	22890.5	27599.3	28806.4	29434.9	29295.2	21808.1
55°	8614.5	8734.2	9138.2	11118.5	13911.9	18371.2	23658.7	26457.0	27579.3	28103.1	21294.3
57.5°	4185.0	3960.6	4454.4	6045.6	8035.9	12355.6	18246.5	23045.1	25484.3	26432.0	20176.9
60°	2184.8	2269.6	2464.1	3032.8	4155.1	6414.7	11372.9	15358.4	19084.5	20541.1	15293.6
62.5°	1810.7	1840.6	1970.3	2254.6	2763.4	3691.2	5806.2	7487.2	9731.8	11043.7	8699.3
65°	1536.3	1551.3	1691.0	1880.5	2204.7	2598.8	2987.9	3127.6	3786.0	3885.7	3092.6
67.5°	1281.9	1296.9	1446.6	1626.1	1835.6	1940.4	2040.1	2030.2	2105.0	2075.1	2070.1
70°	987.6	1002.6	1157.2	1346.8	1451.5	1391.7	1700.9	1770.8	1800.7	1825.7	1865.6
72.5°	713.3	743.2	862.9	997.6	942.8	1082.4	1401.7	1506.4	1546.3	1561.3	1611.2
75°	518.8	528.7	558.7	518.8	598.6	753.2	987.6	1117.3	1167.2	1182.2	1257.0
77.5°	229.5	234.4	239.4	299.3	384.1	468.9	588.6	693.3	763.2	783.1	803.1
80°	119.7	124.7	154.6	204.5	274.3	344.2	429.0	488.8	533.7	538.7	558.7
82.5°	74.8	79.8	109.7	144.7	194.5	254.4	314.3	364.1	399.0	404.0	409.0
85°	34.9	44.9	64.8	89.8	129.7	164.6	169.6	144.7	154.6	159.6	149.6
87.5°	10.0	15.0	20.0	15.0	20.0	20.0	24.9	29.9	29.9	29.9	34.9
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°	5611.6	5611.6	5611.6	5611.6	5611.6	5611.6	5611.6	5611.6	5611.6	5611.6	5611.6
2.5°	5701.4	5656.5	5481.9	5417.1	5247.5	5277.4	5187.6	5182.7	5162.7	5157.7	5152.7
5°	5841.1	5701.4	5491.9	5332.3	5237.5	5227.5	5162.7	5162.7	5182.7	5197.6	5162.7
7.5°	6070.5	5910.9	5556.8	5407.1	5322.3	5307.4	5262.5	5227.5	5272.4	5257.5	5217.6
10°	6334.9	6055.6	5681.5	5551.8	5412.1	5377.2	5377.2	5392.2	5317.3	5342.3	5302.4
12.5°	6629.2	6255.1	5841.1	5691.4	5526.8	5506.9	5496.9	5387.2	5427.1	5407.1	5307.4
15°	7003.3	6484.6	6045.6	5791.2	5651.5	5561.8	5432.1	5412.1	5387.2	5337.3	5292.4
17.5°	7407.4	6734.0	6140.4	5821.1	5611.6	5546.8	5447.0	5342.3	5267.5	5277.4	5242.5
20°	7751.5	6963.4	6175.3	5851.1	5581.7	5457.0	5302.4	5237.5	5157.7	5152.7	5147.7
22.5°	8160.6	7272.7	6225.2	5771.3	5491.9	5362.2	5257.5	5142.8	5087.9	5018.0	5053.0
25°	8649.4	7392.4	6235.1	5726.4	5427.1	5197.6	5142.8	5018.0	4998.1	4898.3	4918.3
27.5°	9003.6	7457.2	6155.3	5586.7	5277.4	5102.8	5003.1	4913.3	4878.4	4803.6	4783.6
30°	9477.4	7557.0	5985.7	5412.1	5127.8	4933.3	4873.4	4853.4	4753.7	4673.9	4663.9
32.5°	10016.1	7621.8	5876.0	5232.5	4973.2	4823.5	4853.4	4758.7	4634.0	4564.1	4544.2
35°	10445.1	7646.8	5601.7	5028.0	4868.4	4773.6	4738.7	4718.8	4539.2	4474.3	4424.5
37.5°	11098.6	7591.9	5372.2	4883.4	4753.7	4718.8	4688.8	4554.2	4349.6	4254.9	4185.0
40°	11861.7	7577.0	5077.9	4678.9	4643.9	4683.8	4594.1	4384.6	4100.2	3995.5	3945.6
42.5°	12595.0	7681.7	4893.3	4569.1	4524.2	4539.2	4414.5	4100.2	3960.6	3900.7	3820.9
45°	13822.1	7901.2	4589.1	4399.5	4379.6	4369.6	4219.9	3890.7	3810.9	3736.1	3721.1
47.5°	14929.4	7756.5	4394.5	4224.9	4244.9	4190.0	3870.8	3766.0	3676.2	3601.4	3576.5
50°	14994.3	7412.3	4120.2	4090.3	4095.2	4000.5	3696.2	3626.4	3511.6	3461.8	3426.8
52.5°	14655.1	6848.7	3865.8	3875.8	3890.7	3736.1	3481.7	3431.8	3337.1	3267.2	3247.3
55°	13702.4	5970.8	3616.4	3656.3	3696.2	3401.9	3322.1	3197.4	3122.6	3022.8	3027.8
57.5°	12071.3	4808.5	3267.2	3332.1	3416.9	3092.6	3032.8	2878.1	2768.4	2688.6	2678.6
60°	8090.7	3421.9	2743.5	2768.4	2958.0	2828.3	2823.3	2668.6	2519.0	2449.2	2409.3
62.5°	4773.6	2613.8	2369.4	2344.4	2339.4	2414.3	2539.0	2484.1	2289.5	2154.9	2194.8
65°	2499.0	2259.6	2204.7	2120.0	2070.1	2050.1	2144.9	2169.8	2040.1	1895.5	1885.5
67.5°	2100.0	2100.0	2055.1	2025.2	1955.3	1870.5	1810.7	1730.9	1710.9	1671.0	1621.1
70°	1910.4	1960.3	1945.4	1875.5	1815.7	1720.9	1566.3	1436.6	1311.9	1267.0	1296.9
72.5°	1666.0	1715.9	1715.9	1681.0	1601.2	1456.5	1306.9	1157.2	1052.5	972.7	962.7
75°	1281.9	1306.9	1366.7	1326.8	1222.1	1132.3	977.7	823.0	723.3	648.5	633.5
77.5°	818.1	858.0	858.0	853.0	778.1	693.3	593.6	483.8	409.0	354.2	339.2
80°	543.7	568.6	588.6	568.6	518.8	453.9	379.1	304.3	249.4	204.5	194.5
82.5°	399.0	429.0	443.9	424.0	374.1	324.2	269.4	214.5	159.6	124.7	114.7
85°	154.6	159.6	179.6	214.5	209.5	204.5	164.6	119.7	89.8	64.8	59.9
87.5°	39.9	34.9	39.9	39.9	34.9	29.9	29.9	29.9	29.9	15.0	20.0
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)