

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: P531310

Luminaire Tested: **GALN-SA6C-750-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531310
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-SA6C-750-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1050mA 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: 36634 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

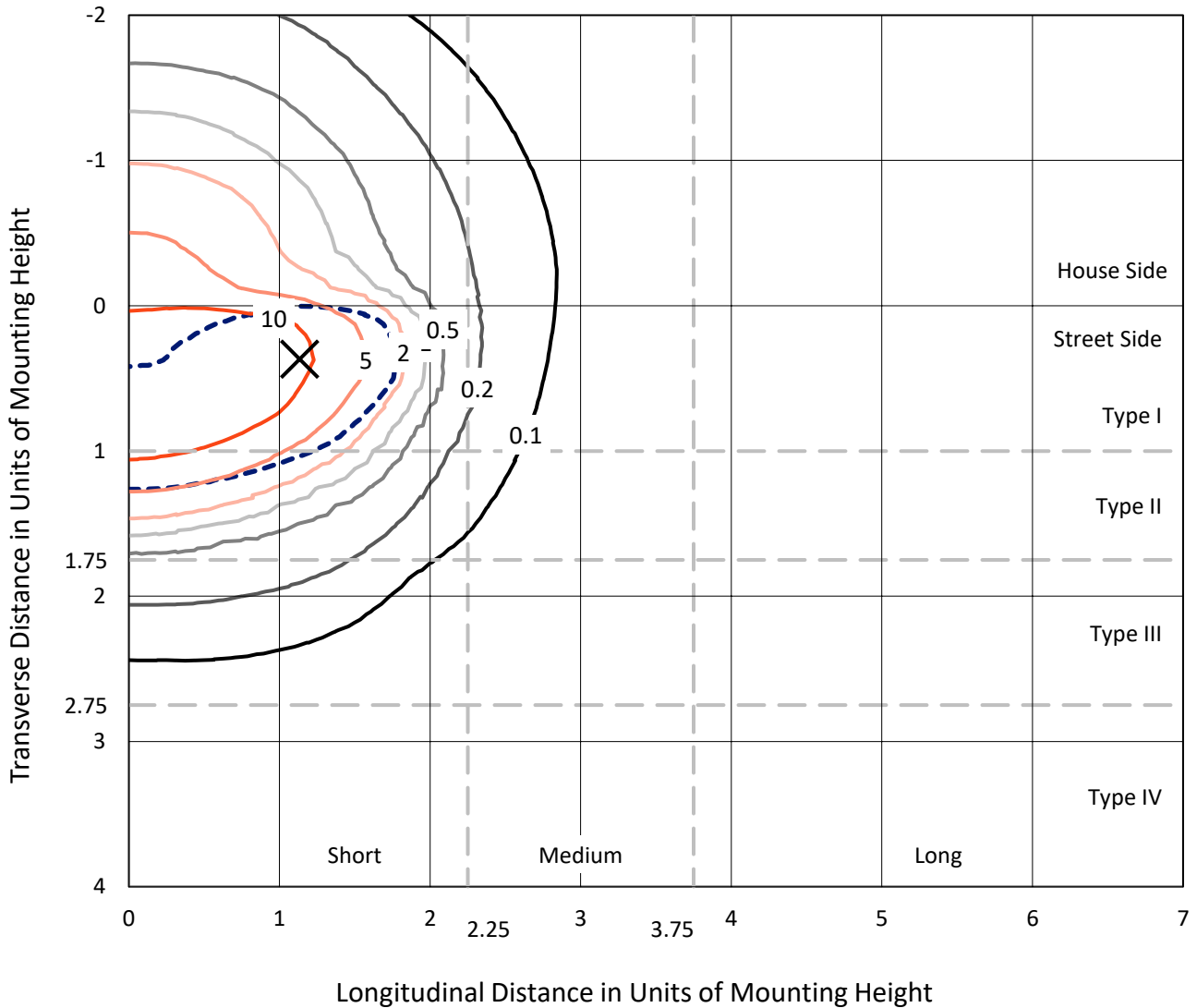
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

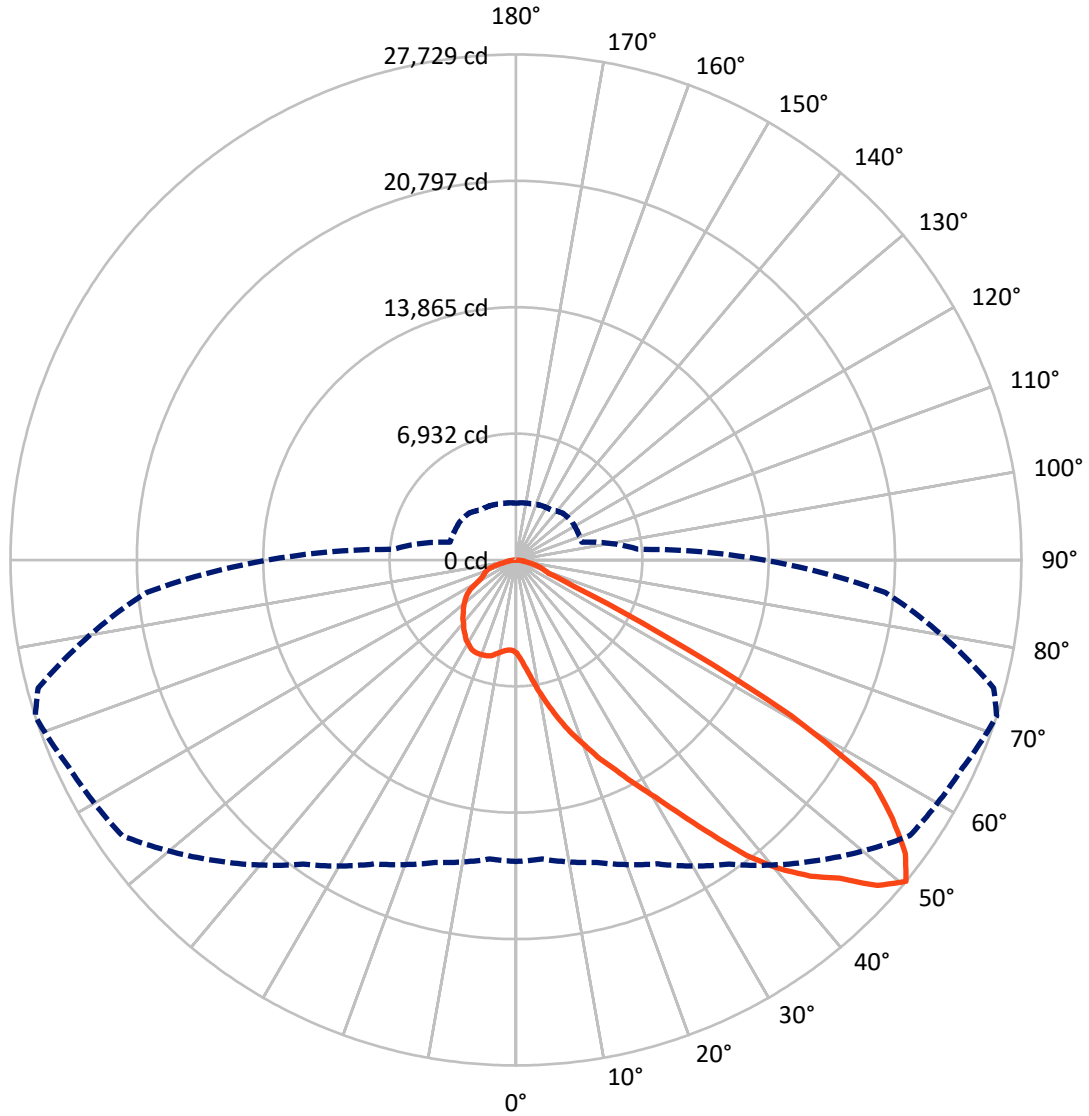
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 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	8393.1	0.0	8393.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	28240.9	0.0	28240.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	36634.0	0.0	36634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.9	1.6
10°-20°	2242.5	6.1
20°-30°	4348.0	11.9
30°-40°	7203.2	19.7
40°-50°	10078.8	27.5
50°-60°	8502.8	23.2
60°-70°	2591.6	7.1
70°-80°	909.2	2.5
80°-90°	158.1	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°	36634.0	100.0
0°-180°	36634.0	100.0

Coefficient of Utilization

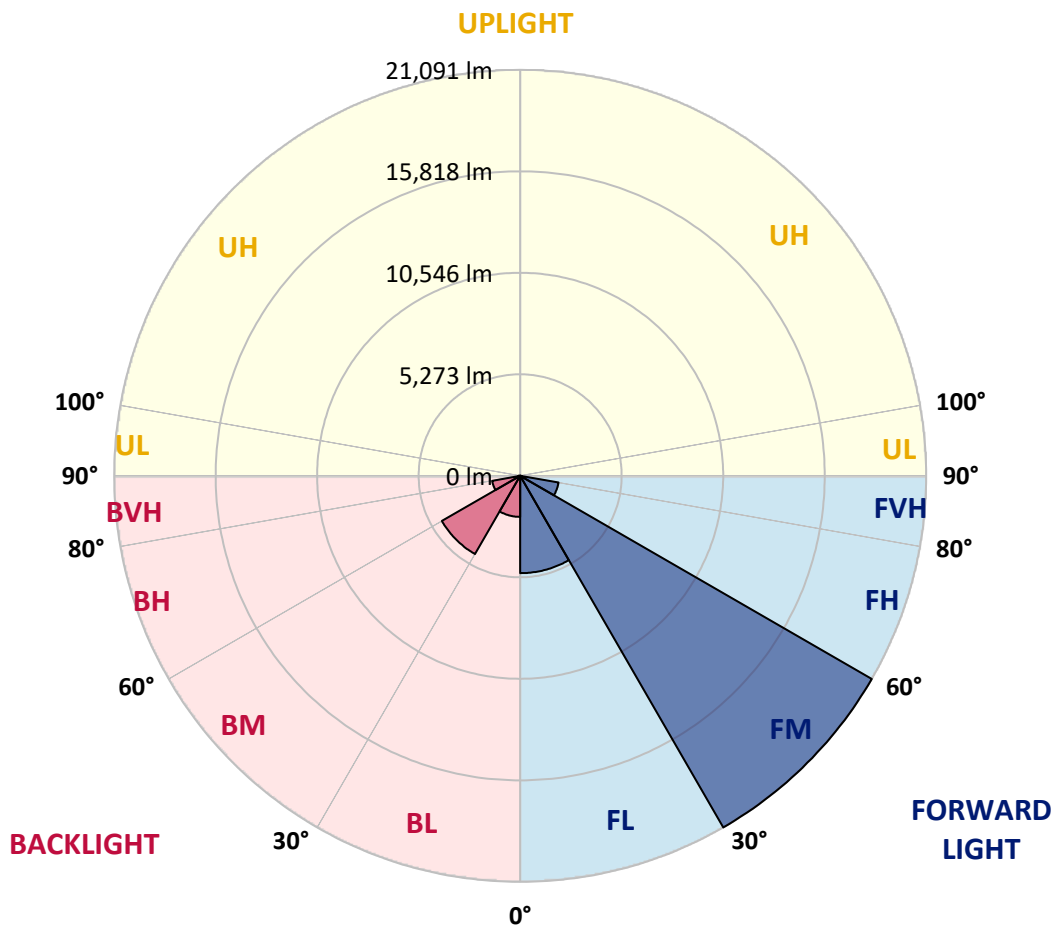


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5056.8	13.8			
FM (30°-60°)	21091.2	57.6			
FH (60°-80°)	2022.1	5.5			G2/5000
FVH (80°-90°)	70.8	0.2			G1/100
BL (0°-30°)	2133.6	5.8	B3/2500		
BM (30°-60°)	4693.5	12.8	B3/5000		
BH (60°-80°)	1478.7	4.0	B3/2500		G3/2500
BVH (80°-90°)	87.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8
2.5°	6559.4	6518.6	6396.2	6355.4	6210.4	5947.5	5856.8	5589.3	5476.0	5371.8	5249.4
5°	8295.6	8105.2	8091.6	7860.4	7525.0	7330.1	6749.8	6360.0	6001.9	5820.5	5485.1
7.5°	9401.7	9406.2	9406.2	9215.8	8948.4	8454.3	7933.0	7230.3	6690.9	6423.4	5852.3
10°	10453.4	10362.7	10312.9	10294.7	10113.4	9632.9	9075.3	8205.0	7466.1	7153.3	6128.8
12.5°	11196.8	11119.8	11233.1	11174.2	11042.7	10729.9	10204.1	9211.3	8286.6	7865.0	6573.0
15°	11550.4	11604.8	11695.5	11858.7	11799.7	11681.9	11101.6	10244.9	9170.5	8694.5	6967.4
17.5°	12094.4	11944.8	12053.6	12257.6	12420.8	12366.4	12035.4	10992.8	10045.4	9460.6	7497.8
20°	12475.2	12389.0	12443.4	12679.1	12801.5	13109.8	12937.5	11972.0	10884.0	10267.5	8123.4
22.5°	13563.1	13436.2	13259.4	13295.7	13341.0	13558.6	13599.4	13046.3	11858.7	11205.9	8717.2
25°	14904.9	14787.1	14578.5	14365.5	14234.0	14193.2	14333.7	13889.5	12792.5	12117.0	9356.4
27.5°	16382.7	16183.3	16051.8	15612.1	15258.5	15204.1	15136.1	14895.8	13898.6	13168.7	10077.1
30°	17819.7	17661.1	17484.3	16781.6	16414.4	16355.5	16020.1	16088.1	15099.8	14288.4	10893.1
32.5°	18907.7	18921.3	18517.8	17987.4	17642.9	17330.1	17207.7	17402.7	16641.1	15988.3	11804.3
35°	19787.1	19827.9	19442.6	18962.1	18590.3	18807.9	18753.5	18844.2	18481.5	17683.7	12865.0
37.5°	20643.8	20439.9	20027.3	19796.2	19601.2	19959.3	20421.7	20498.8	20566.8	19628.4	14098.0
40°	20784.4	20802.5	20562.3	20725.4	20480.7	21020.1	22094.4	21994.7	22271.2	21450.7	15435.3
42.5°	20584.9	20625.7	20720.9	20952.1	21541.4	22189.6	23785.3	23377.3	23712.8	22982.9	16736.3
45°	20258.5	20090.8	20208.7	21088.1	22108.0	23549.6	25331.1	25013.8	24905.0	24293.0	18286.6
47.5°	18699.1	18871.4	19238.6	20322.0	21854.2	23785.3	26428.1	26355.6	26682.0	26251.3	19696.4
50°	16536.8	16468.8	17176.0	18395.4	20371.9	23322.9	26369.2	27026.5	27729.1	27130.8	20326.5
52.5°	12384.5	12747.1	13354.6	14868.6	17688.3	20802.5	25081.8	26178.8	26750.0	26623.0	19818.8
55°	7828.7	7937.5	8304.7	10104.3	12642.9	16695.5	21500.6	24043.7	25063.6	25539.6	19351.9
57.5°	3803.3	3599.3	4048.1	5494.1	7302.9	11228.5	16582.2	20943.0	23159.7	24021.0	18336.5
60°	1985.5	2062.6	2239.4	2756.1	3776.1	5829.6	10335.5	13957.5	17343.7	18667.4	13898.6
62.5°	1645.5	1672.7	1790.6	2049.0	2511.4	3354.5	5276.6	6804.2	8844.1	10036.3	7905.8
65°	1396.2	1409.8	1536.7	1709.0	2003.6	2361.8	2715.3	2842.3	3440.6	3531.3	2810.5
67.5°	1165.0	1178.6	1314.6	1477.8	1668.2	1763.4	1854.0	1845.0	1913.0	1885.8	1881.2
70°	897.6	911.2	1051.7	1223.9	1319.1	1264.7	1545.8	1609.3	1636.5	1659.1	1695.4
72.5°	648.2	675.4	784.2	906.6	856.8	983.7	1273.8	1369.0	1405.3	1418.9	1464.2
75°	471.4	480.5	507.7	471.4	544.0	684.5	897.6	1015.4	1060.8	1074.4	1142.3
77.5°	208.5	213.1	217.6	272.0	349.1	426.1	534.9	630.1	693.6	711.7	729.8
80°	108.8	113.3	140.5	185.9	249.3	312.8	389.8	444.2	485.0	489.6	507.7
82.5°	68.0	72.5	99.7	131.5	176.8	231.2	285.6	330.9	362.6	367.2	371.7
85°	31.7	40.8	58.9	81.6	117.9	149.6	154.1	131.5	140.5	145.1	136.0
87.5°	9.1	13.6	18.1	13.6	18.1	18.1	22.7	27.2	27.2	27.2	31.7
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°	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8
2.5°	5181.4	5140.6	4981.9	4923.0	4768.8	4796.0	4714.4	4709.9	4691.8	4687.3	4682.7
5°	5308.3	5181.4	4991.0	4845.9	4759.8	4750.7	4691.8	4691.8	4709.9	4723.5	4691.8
7.5°	5516.8	5371.8	5049.9	4913.9	4836.8	4823.2	4782.4	4750.7	4791.5	4777.9	4741.6
10°	5757.1	5503.2	5163.2	5045.4	4918.4	4886.7	4886.7	4900.3	4832.3	4855.0	4818.7
12.5°	6024.5	5684.5	5308.3	5172.3	5022.7	5004.6	4995.5	4895.8	4932.0	4913.9	4823.2
15°	6364.5	5893.1	5494.1	5263.0	5136.0	5054.4	4936.6	4918.4	4895.8	4850.4	4809.6
17.5°	6731.7	6119.7	5580.3	5290.2	5099.8	5040.8	4950.2	4855.0	4787.0	4796.0	4764.3
20°	7044.5	6328.2	5612.0	5317.4	5072.6	4959.2	4818.7	4759.8	4687.3	4682.7	4678.2
22.5°	7416.2	6609.3	5657.3	5244.8	4991.0	4873.1	4777.9	4673.7	4623.8	4560.3	4592.1
25°	7860.4	6718.1	5666.4	5204.0	4932.0	4723.5	4673.7	4560.3	4542.2	4451.5	4469.7
27.5°	8182.3	6777.0	5593.9	5077.1	4796.0	4637.4	4546.7	4465.1	4433.4	4365.4	4347.3
30°	8612.9	6867.7	5439.7	4918.4	4660.1	4483.3	4428.9	4410.7	4320.1	4247.5	4238.5
32.5°	9102.5	6926.6	5340.0	4755.2	4519.5	4383.5	4410.7	4324.6	4211.3	4147.8	4129.7
35°	9492.4	6949.3	5090.7	4569.4	4424.3	4338.2	4306.5	4288.3	4125.1	4066.2	4020.9
37.5°	10086.2	6899.4	4882.2	4437.9	4320.1	4288.3	4261.1	4138.7	3952.9	3866.8	3803.3
40°	10779.8	6885.8	4614.7	4252.1	4220.3	4256.6	4175.0	3984.6	3726.2	3631.0	3585.7
42.5°	11446.1	6981.0	4447.0	4152.3	4111.5	4125.1	4011.8	3726.2	3599.3	3544.9	3472.4
45°	12561.3	7180.5	4170.5	3998.2	3980.1	3971.0	3835.0	3535.8	3463.3	3395.3	3381.7
47.5°	13567.6	7049.0	3993.7	3839.6	3857.7	3807.8	3517.7	3422.5	3340.9	3272.9	3250.3
50°	13626.6	6736.2	3744.4	3717.2	3721.7	3635.6	3359.0	3295.6	3191.3	3146.0	3114.3
52.5°	13318.3	6224.0	3513.2	3522.2	3535.8	3395.3	3164.1	3118.8	3032.7	2969.2	2951.1
55°	12452.5	5426.2	3286.5	3322.8	3359.0	3091.6	3019.1	2905.7	2837.7	2747.1	2751.6
57.5°	10970.2	4369.9	2969.2	3028.1	3105.2	2810.5	2756.1	2615.6	2515.9	2443.4	2434.3
60°	7352.7	3109.7	2493.2	2515.9	2688.1	2570.3	2565.7	2425.2	2289.2	2225.8	2189.5
62.5°	4338.2	2375.4	2153.2	2130.6	2126.0	2194.0	2307.4	2257.5	2080.7	1958.3	1994.6
65°	2271.1	2053.5	2003.6	1926.6	1881.2	1863.1	1949.2	1971.9	1854.0	1722.6	1713.5
67.5°	1908.4	1908.4	1867.6	1840.4	1777.0	1699.9	1645.5	1573.0	1554.9	1518.6	1473.3
70°	1736.2	1781.5	1767.9	1704.5	1650.1	1563.9	1423.4	1305.5	1192.2	1151.4	1178.6
72.5°	1514.1	1559.4	1559.4	1527.7	1455.1	1323.7	1187.7	1051.7	956.5	884.0	874.9
75°	1165.0	1187.7	1242.1	1205.8	1110.6	1029.0	888.5	748.0	657.3	589.3	575.7
77.5°	743.4	779.7	779.7	775.2	707.2	630.1	539.4	439.7	371.7	321.9	308.3
80°	494.1	516.8	534.9	516.8	471.4	412.5	344.5	276.5	226.7	185.9	176.8
82.5°	362.6	389.8	403.4	385.3	340.0	294.7	244.8	194.9	145.1	113.3	104.3
85°	140.5	145.1	163.2	194.9	190.4	185.9	149.6	108.8	81.6	58.9	54.4
87.5°	36.3	31.7	36.3	36.3	31.7	27.2	27.2	27.2	27.2	13.6	18.1
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)