

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: P531464

Luminaire Tested: **GALN-SA6D-730-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-730-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35043 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

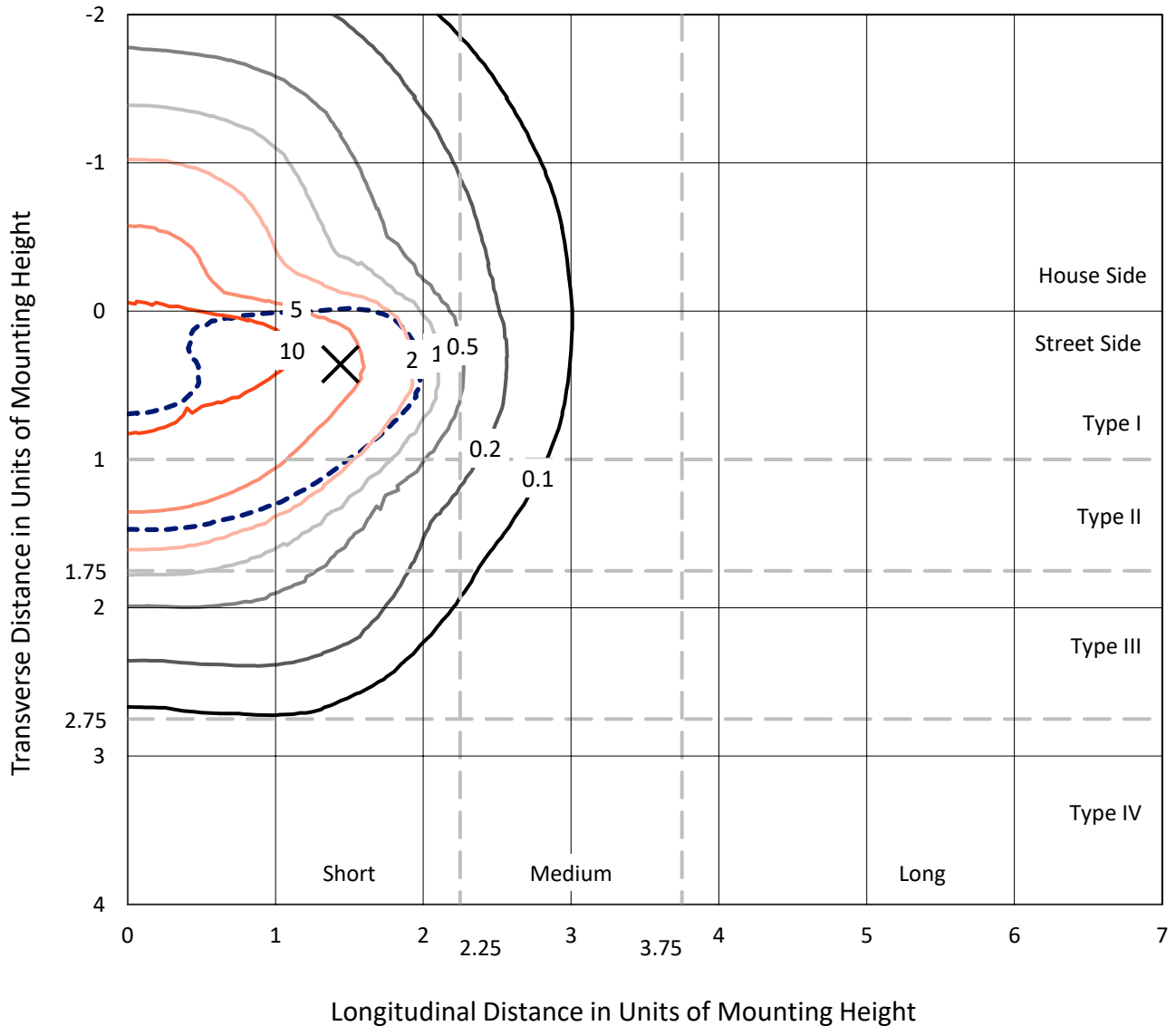
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

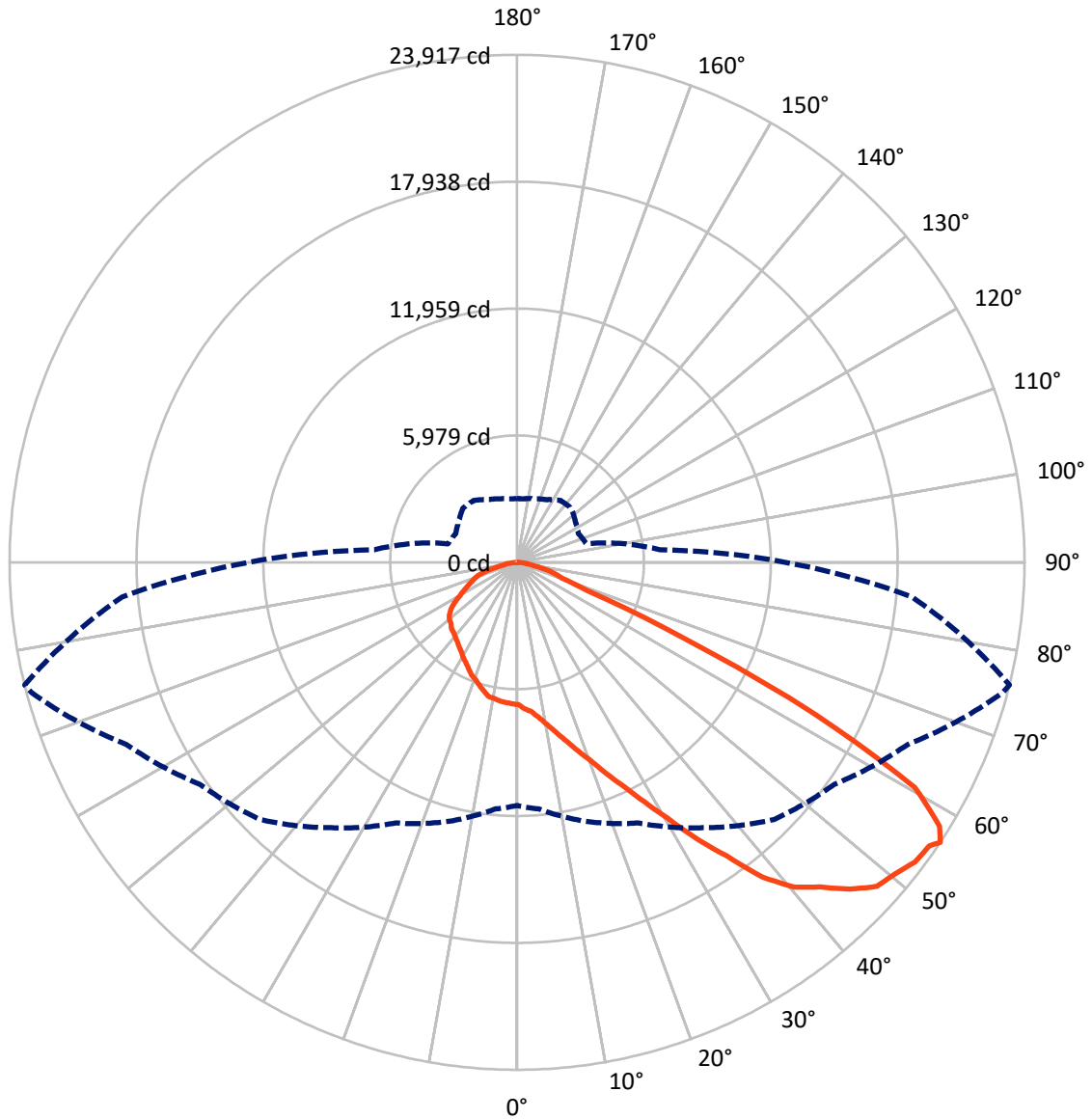
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9422.0	0.0	9422.0
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	25621.0	0.0	25621.0
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	35043.0	0.0	35043.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	664.9	1.9
10°-20°	2088.8	6.0
20°-30°	3653.0	10.4
30°-40°	5719.5	16.3
40°-50°	8320.3	23.7
50°-60°	9144.5	26.1
60°-70°	4081.7	11.6
70°-80°	1179.0	3.4
80°-90°	191.2	0.5
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°	35043.0	100.0
0°-180°	35043.0	100.0

**Coefficient of Utilization**



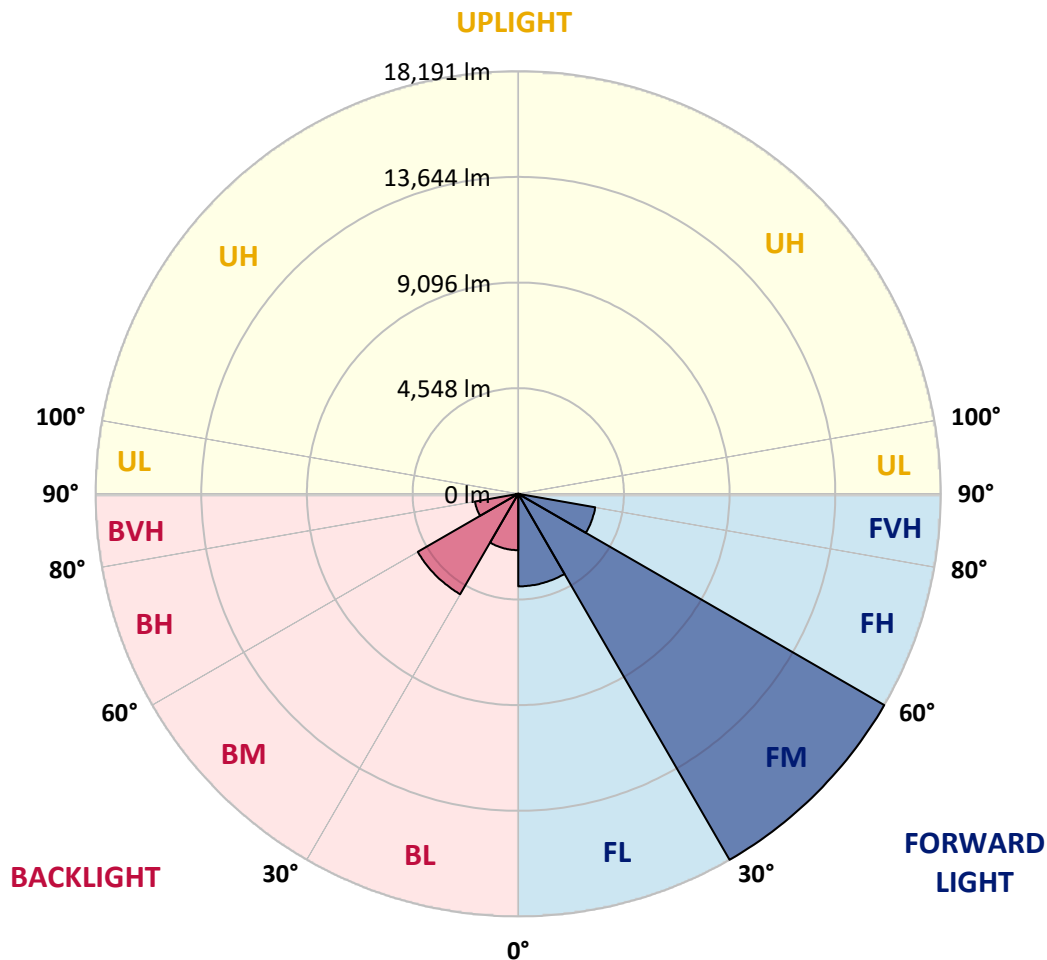
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3982.2	11.4			
FM (30°-60°)	18191.5	51.9			
FH (60°-80°)	3365.0	9.6			G2/5000
FVH (80°-90°)	82.3	0.2			G1/100
BL (0°-30°)	2424.5	6.9	B3/2500		
BM (30°-60°)	4992.9	14.2	B3/5000		
BH (60°-80°)	1895.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	108.9	0.3			G2/225
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°	75°	76°	85°
0°	6705.0	6705.0	6705.0	6705.0	6705.0	6705.0	6705.0	6705.0	6705.0	6705.0	6705.0
2.5°	7386.4	7268.3	7259.2	7227.4	7245.6	7163.8	7077.5	6964.0	6845.9	6918.5	6745.9
5°	7904.3	7745.3	7808.9	7699.9	7713.5	7604.5	7427.3	7295.6	7150.2	7063.9	6941.2
7.5°	8086.0	8099.6	8145.1	8126.9	8036.0	8036.0	7917.9	7686.3	7431.9	7381.9	7177.5
10°	8331.3	8335.9	8285.9	8299.5	8426.7	8367.7	8263.2	8163.2	7836.2	7777.1	7413.7
12.5°	8417.6	8335.9	8417.6	8490.3	8640.2	8722.0	8699.3	8626.6	8276.8	8235.9	7704.4
15°	8431.3	8381.3	8449.4	8613.0	8744.7	9089.9	9262.6	9212.6	8749.2	8753.8	8031.5
17.5°	8367.7	8435.8	8463.1	8603.9	8908.2	9230.8	9730.5	9798.6	9417.0	9358.0	8444.9
20°	8454.0	8404.0	8440.3	8567.5	8971.8	9476.1	10130.2	10580.0	10043.9	10003.0	8871.9
22.5°	8785.6	8717.4	8708.4	8790.1	9080.9	9603.3	10552.7	11361.3	10807.1	10829.8	9403.4
25°	9044.5	9080.9	9049.1	9044.5	9226.2	9794.1	11111.4	12292.6	11842.8	11711.1	10030.3
27.5°	9489.7	9576.0	9512.4	9598.7	9557.8	10080.3	11511.2	13323.7	12960.3	12783.2	10598.1
30°	10107.5	10152.9	10093.9	10093.9	9971.2	10480.0	11874.6	14400.4	14250.5	14009.7	11265.9
32.5°	10920.7	10988.8	10870.7	10802.5	10784.4	11075.1	12528.8	15463.4	15717.7	15513.3	12151.7
35°	11997.3	11956.4	11815.6	11752.0	11506.7	11988.2	13500.9	16685.3	17353.1	16989.7	13223.8
37.5°	12946.7	12883.1	12874.0	12519.7	12578.7	12974.0	14327.7	17612.1	18938.5	18834.0	14354.9
40°	13832.5	13891.6	13987.0	13787.1	13696.2	14132.3	15290.7	18320.7	20169.6	20128.7	15227.1
42.5°	14782.0	14727.4	14895.5	14727.4	14591.2	15209.0	16335.6	18811.3	21250.8	20914.6	16140.2
45°	16158.4	15985.8	16044.8	16058.5	15958.5	16185.6	16767.1	19165.7	22009.4	21973.0	16808.0
47.5°	17307.7	17312.2	17212.3	17135.1	16830.7	17057.8	17248.6	19388.3	22881.6	22822.5	17066.9
50°	17734.7	17675.7	17966.4	18134.5	18152.6	17689.3	17625.7	19510.9	23340.4	23081.5	17325.9
52.5°	16199.3	16253.8	16712.6	17712.0	18288.9	18338.9	18066.3	19765.3	23526.7	23472.1	17534.8
55°	13037.6	13301.0	14055.1	15209.0	16576.3	18080.0	18543.3	20028.8	23626.6	23581.2	18461.5
56°	11461.2	11665.7	12646.9	13550.9	15268.0	17139.6	18243.5	20310.4	23703.8	23917.3	18679.6
57.5°	9226.2	9462.4	10166.6	11193.2	13219.3	15349.8	17416.7	19965.2	23404.0	23485.8	18838.6
60°	5769.2	5791.9	6636.9	7313.8	8740.2	10820.7	13291.9	17371.3	21659.6	21541.5	16921.6
62.5°	3784.1	3788.6	4556.3	5110.5	5760.1	6237.1	7822.5	11520.3	15981.2	15772.3	12047.2
65°	2657.5	2716.5	3311.6	4052.1	4315.6	4065.7	4015.7	6073.6	8926.4	8626.6	6473.4
67.5°	1944.3	1948.8	2475.8	3270.7	3652.3	3093.6	2512.1	2966.4	3534.2	3525.1	2998.2
70°	1285.6	1340.1	1744.4	2444.0	2880.1	2484.9	2053.3	2121.4	2248.6	2248.6	2230.5
72.5°	749.5	799.5	1067.5	1549.1	1617.2	1553.6	1626.3	1817.1	1898.8	1894.3	1871.6
75°	427.0	449.7	508.8	645.1	804.1	949.4	1194.7	1376.4	1458.2	1508.2	1449.1
77.5°	249.8	263.5	299.8	368.0	417.9	513.3	649.6	776.8	885.8	872.2	881.3
80°	131.7	131.7	168.1	218.0	290.7	363.4	431.6	504.2	563.3	576.9	590.6
82.5°	77.2	81.8	109.0	159.0	209.0	258.9	331.6	381.6	436.1	440.6	449.7
85°	40.9	45.4	68.1	104.5	140.8	159.0	163.5	154.5	168.1	159.0	181.7
87.5°	13.6	13.6	22.7	18.2	18.2	22.7	27.3	27.3	36.3	36.3	36.3
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°	6705.0	6705.0	6705.0	6705.0	6705.0	6705.0	6705.0	6705.0	6705.0	6705.0	6705.0
2.5°	6741.4	6741.4	6664.1	6518.8	6496.1	6437.0	6382.5	6378.0	6337.1	6300.7	6282.6
5°	6868.6	6727.7	6614.2	6482.4	6328.0	6255.3	6173.5	6082.7	6046.3	6082.7	6078.1
7.5°	7013.9	6895.8	6555.1	6309.8	6132.6	6060.0	5969.1	5873.7	5882.8	5882.8	5819.2
10°	7154.8	6995.8	6450.6	6137.2	5878.3	5823.7	5773.8	5810.1	5855.5	5864.6	5823.7
12.5°	7391.0	7032.1	6400.7	5964.6	5801.0	5682.9	5714.7	5814.7	5910.1	5882.8	5914.6
15°	7568.1	7063.9	6173.5	5787.4	5583.0	5637.5	5751.1	5819.2	5978.2	5960.0	5991.8
17.5°	7740.8	7082.1	5950.9	5551.2	5464.9	5614.8	5701.1	5896.4	5946.4	6055.4	6096.3
20°	8095.1	7118.4	5723.8	5405.8	5378.6	5551.2	5701.1	5791.9	5901.0	5996.4	5996.4
22.5°	8276.8	7100.2	5573.9	5215.0	5301.3	5410.4	5546.6	5701.1	5701.1	5791.9	5796.5
25°	8503.9	7027.6	5337.7	5124.2	5187.8	5292.2	5446.7	5392.2	5451.2	5451.2	5523.9
27.5°	8762.9	6873.1	5133.3	4960.6	5087.8	5201.4	5224.1	5187.8	5119.6	5110.5	5083.3
30°	8971.8	6682.3	4983.3	4906.1	5010.6	5074.2	5001.5	4924.3	4806.2	4797.1	4733.5
32.5°	9258.0	6446.1	4797.1	4769.8	4887.9	4892.5	4869.8	4751.7	4579.0	4506.4	4433.7
35°	9739.6	6309.8	4656.3	4697.2	4733.5	4719.9	4679.0	4551.8	4379.2	4347.4	4320.1
37.5°	10093.9	6209.9	4510.9	4560.9	4592.7	4610.8	4488.2	4347.4	4351.9	4288.3	4270.1
40°	10493.6	6146.3	4392.8	4415.5	4420.0	4479.1	4329.2	4261.1	4292.9	4252.0	4279.2
42.5°	11007.0	6164.4	4270.1	4252.0	4338.3	4315.6	4242.9	4152.0	4170.2	4047.5	4065.7
45°	11279.5	6287.1	4197.5	4115.7	4211.1	4206.5	4111.1	4024.8	3915.8	3679.6	3688.7
47.5°	11461.2	6318.9	4024.8	3970.3	4070.3	4129.3	4020.3	3820.4	3666.0	3497.9	3457.0
50°	11647.5	6378.0	3943.1	3829.5	3870.4	4011.2	3874.9	3684.1	3534.2	3384.3	3407.0
52.5°	11811.0	6491.5	3784.1	3616.0	3688.7	3843.1	3770.4	3538.8	3375.2	3252.6	3216.2
55°	12537.9	6745.9	3516.1	3298.0	3470.6	3666.0	3625.1	3343.4	3166.3	3102.7	3093.6
56°	12651.4	6755.0	3375.2	3189.0	3348.0	3606.9	3556.9	3257.1	3098.1	2998.2	3002.7
57.5°	12669.6	6646.0	3175.3	3089.0	3225.3	3520.6	3457.0	3189.0	2970.9	2880.1	2852.8
60°	11147.8	5187.8	2925.5	2871.0	3030.0	3257.1	3234.4	3002.7	2757.4	2652.9	2702.9
62.5°	7599.9	3802.2	2730.2	2721.1	2802.8	3025.4	2966.4	2757.4	2553.0	2484.9	2453.1
65°	4424.6	2884.6	2539.4	2503.0	2571.2	2689.3	2730.2	2512.1	2298.6	2253.2	2239.6
67.5°	2612.1	2384.9	2294.1	2235.0	2212.3	2285.0	2316.8	2189.6	1976.1	1912.5	1967.0
70°	2185.0	2121.4	2126.0	2026.0	1971.5	1921.6	1894.3	1780.7	1603.6	1521.8	1499.1
72.5°	1885.2	1858.0	1839.8	1748.9	1699.0	1585.4	1467.3	1353.7	1222.0	1153.8	1158.4
75°	1440.0	1431.0	1440.0	1394.6	1308.3	1217.4	1108.4	963.1	863.1	776.8	795.0
77.5°	858.6	885.8	899.5	881.3	844.9	763.2	695.0	599.6	504.2	436.1	427.0
80°	590.6	613.3	636.0	613.3	576.9	517.9	445.2	372.5	304.4	268.0	258.9
82.5°	449.7	472.4	486.1	463.4	417.9	354.3	304.4	254.4	199.9	163.5	154.5
85°	163.5	186.3	181.7	218.0	236.2	227.1	195.3	149.9	113.6	81.8	77.2
87.5°	45.4	40.9	45.4	45.4	45.4	40.9	36.3	36.3	36.3	22.7	18.2
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)