

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: P455562

Luminaire Tested: **GALN-SA6D-730-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455562  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41702 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

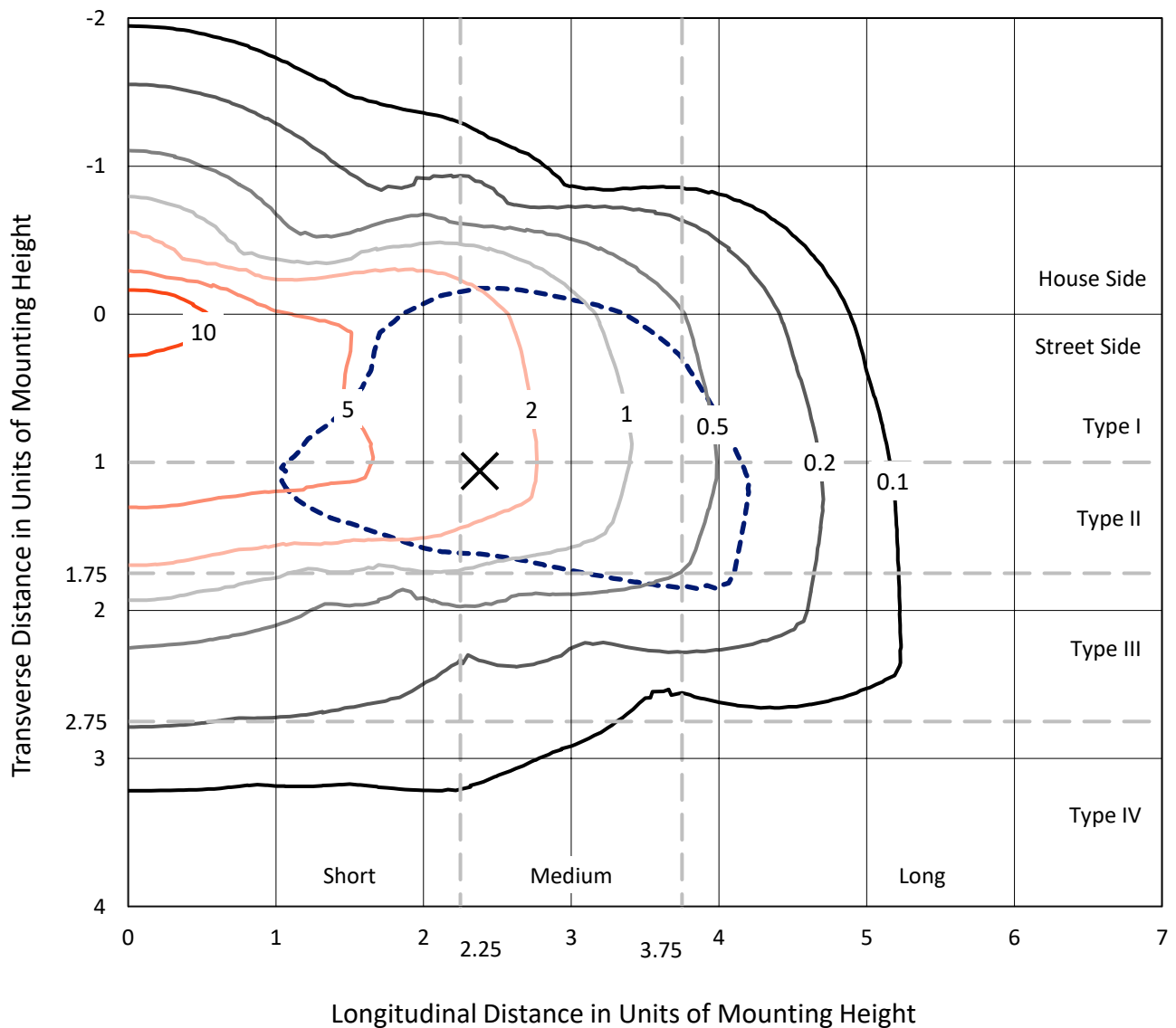
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

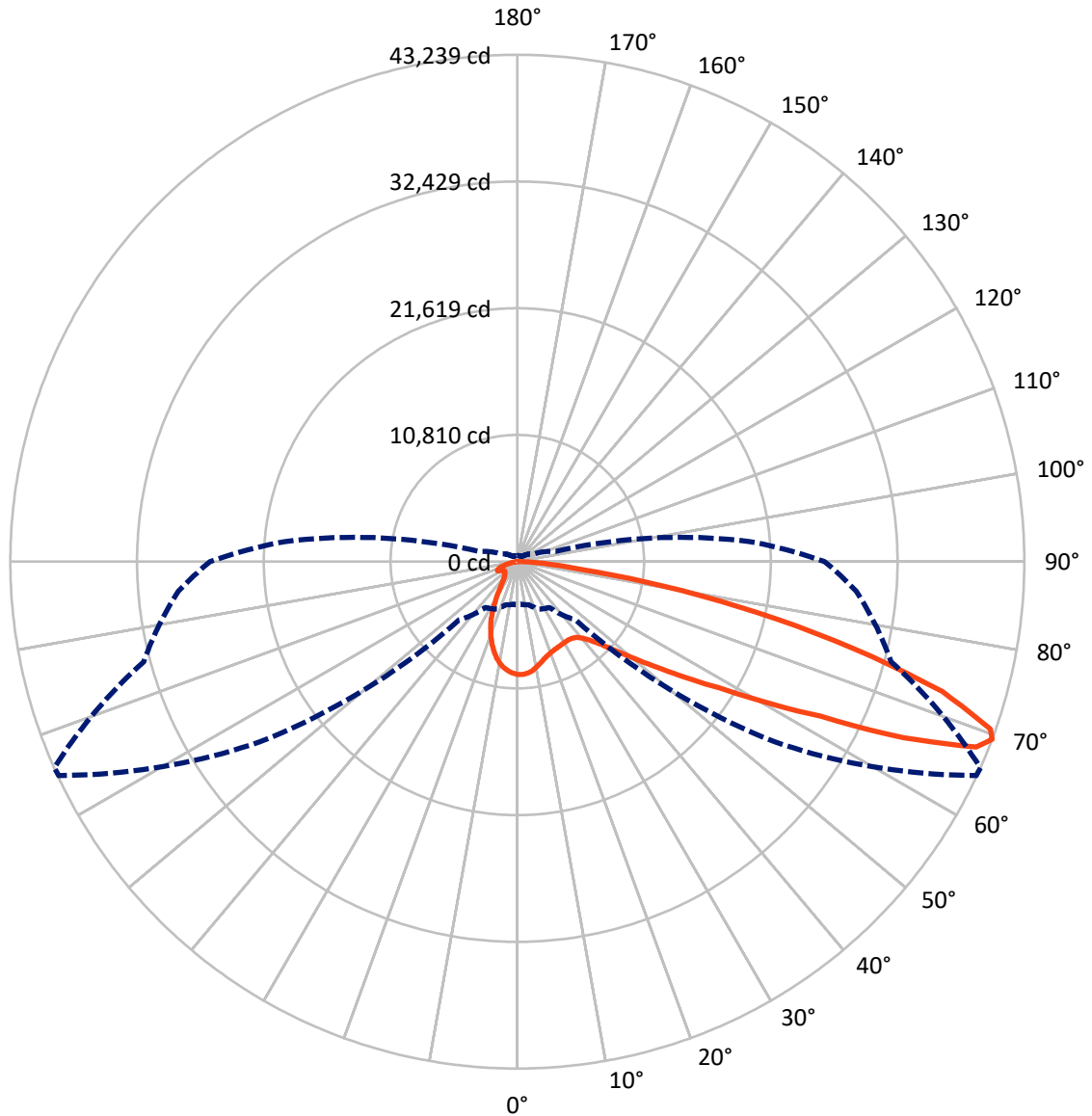
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7842.6	0.0	7842.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	33859.4	0.0	33859.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	41702.0	0.0	41702.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	836.3	2.0
10°-20°	1983.6	4.8
20°-30°	2700.4	6.5
30°-40°	3628.7	8.7
40°-50°	5418.3	13.0
50°-60°	8618.7	20.7
60°-70°	10600.5	25.4
70°-80°	6897.2	16.5
80°-90°	1018.5	2.4
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°	41702.0	100.0
0°-180°	41702.0	100.0

**Coefficient of Utilization**



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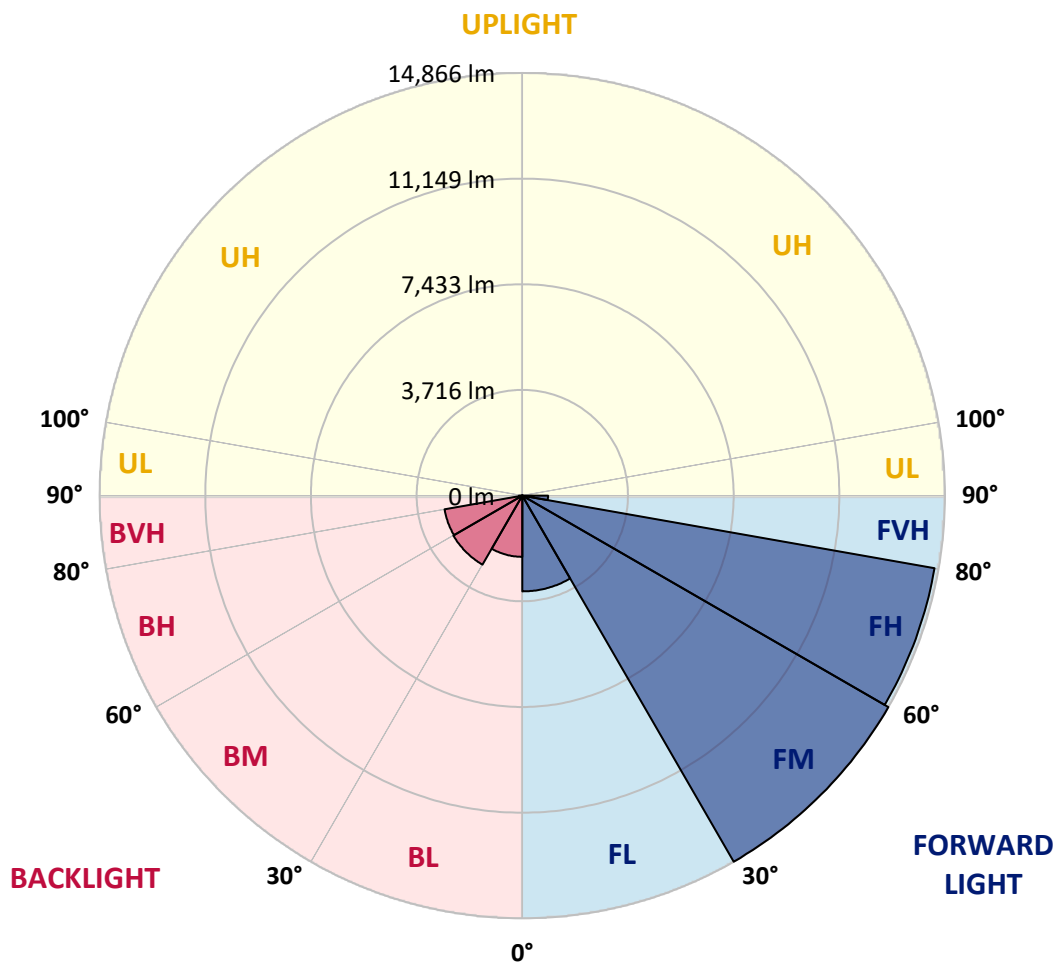
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3367.4	8.1			
FM	(30°-60°)	14865.5	35.6			
FH	(60°-80°)	14721.0	35.3			G5
FVH	(80°-90°)	905.5	2.2			G5
BL	(0°-30°)	2152.8	5.2	B3/2500		
BM	(30°-60°)	2800.2	6.7	B3/5000		
BH	(60°-80°)	2776.6	6.7	B4/5000		G4/5000
BVH	(80°-90°)	113.0	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9630.2	9630.2	9630.2	9630.2	9630.2	9630.2	9630.2	9630.2	9630.2	9630.2	9630.2
2.5°	9293.0	9329.9	9371.5	9417.7	9505.4	9553.9	9588.6	9627.8	9632.5	9653.2	9637.1
5°	8607.1	8651.0	8713.3	8801.1	8932.7	9138.3	9350.7	9523.9	9544.7	9641.7	9669.4
7.5°	8034.4	8059.8	8110.6	8251.4	8438.5	8667.1	8976.6	9327.6	9378.4	9609.4	9690.2
10°	7567.9	7593.3	7653.3	7798.8	7983.6	8269.9	8609.4	9071.3	9112.8	9510.1	9694.8
12.5°	7219.1	7242.2	7306.9	7450.1	7662.6	7930.4	8304.6	8794.2	8854.2	9378.4	9650.9
15°	6953.6	6997.4	7050.6	7168.3	7392.4	7651.0	8013.6	8540.1	8588.6	9239.9	9620.9
17.5°	6840.4	6861.2	6898.1	7006.7	7170.7	7424.7	7789.6	8341.5	8399.2	9142.9	9614.0
20°	6845.0	6865.8	6872.7	6932.8	7050.6	7270.0	7630.2	8184.5	8253.8	9057.4	9625.5
22.5°	7002.1	7004.4	6979.0	6958.2	7004.4	7186.8	7517.1	8066.7	8147.5	9020.5	9634.8
25°	7244.6	7286.1	7249.2	7152.2	7066.7	7154.5	7473.2	8002.0	8078.2	8967.4	9623.2
27.5°	7637.1	7644.1	7614.1	7482.4	7260.7	7196.1	7454.7	7953.5	8018.2	8928.1	9565.5
30°	8163.7	8142.9	8115.2	7969.7	7621.0	7355.4	7494.0	7909.7	7976.6	8870.4	9496.2
32.5°	8697.2	8761.8	8736.4	8565.5	8112.9	7664.9	7621.0	7905.0	7960.5	8826.5	9420.0
35°	9263.0	9293.0	9413.1	9325.3	8861.1	8166.0	7858.8	7976.6	8020.5	8828.8	9366.9
37.5°	9706.4	9787.2	10068.9	10145.1	9708.7	8828.8	8244.5	8179.9	8198.3	8942.0	9387.7
40°	10242.1	10380.7	10743.3	11055.0	10768.7	9690.2	8900.4	8556.3	8579.4	9214.5	9523.9
42.5°	10921.1	11018.1	11505.4	11928.0	11881.8	10828.7	9694.8	9172.9	9184.4	9757.2	9905.0
45°	11715.5	11854.1	12401.4	13036.5	13145.0	12117.4	10842.6	10105.9	10099.0	10600.1	10616.3
47.5°	12731.7	12817.1	13359.8	14052.6	14491.4	13736.2	12235.1	11445.3	11371.4	11828.7	11697.1
50°	13667.0	13800.9	14212.0	14969.5	16061.8	15632.3	14066.5	13182.0	13008.8	13436.0	13214.3
52.5°	14059.6	14200.4	14546.8	15486.8	17408.2	18084.8	16392.0	15253.5	14964.8	15292.8	15211.9
55°	13378.3	13560.7	13884.0	15027.2	17999.4	20913.8	19528.2	17648.3	17438.2	17297.3	17320.4
57.5°	11546.9	11720.1	12156.6	13417.5	17292.7	22966.9	24006.1	20726.8	20276.4	19627.5	19738.3
60°	8789.5	8898.1	9124.4	10521.6	15198.1	23500.3	29091.4	24618.1	24331.7	21948.4	22026.9
62.5°	6242.3	6364.7	6521.7	7219.1	11126.6	21996.9	33072.8	30052.1	29029.0	24352.5	24276.3
65°	5069.1	4986.0	5175.3	5501.0	6528.6	17047.9	33968.8	37594.5	36185.8	27518.7	26461.0
67.5°	4168.4	4080.7	4267.8	4847.4	4965.2	9895.7	30740.3	42490.4	42208.7	30962.0	28680.3
69°	3690.4	3644.2	3808.2	4468.7	4766.6	7027.5	26779.7	43171.7	43238.7	32991.9	29022.1
70°	3325.5	3344.0	3503.3	4277.0	4676.5	5794.3	22888.4	42231.8	42799.9	34005.7	28652.6
72.5°	2448.0	2487.2	2708.9	3542.6	4591.1	4916.7	13620.8	36887.9	37892.4	34065.8	26211.6
75°	1711.3	1692.8	1889.1	2667.3	4337.0	4872.8	7999.7	28527.9	29666.4	29444.7	22024.6
77.5°	1120.1	1150.1	1307.1	1884.5	3648.8	4835.9	5214.6	20239.5	20978.5	19692.2	13027.3
80°	789.8	787.5	875.3	1286.3	2706.6	4646.5	4270.1	12757.1	12570.0	7738.8	3863.6
82.5°	452.6	485.0	586.6	905.3	1810.6	4089.9	3928.3	6101.4	5570.2	2205.5	1304.8
85°	251.7	263.3	348.7	547.3	1057.7	3080.7	3429.4	2775.9	2618.8	921.4	561.2
87.5°	80.8	87.8	145.5	277.1	480.4	1454.9	1942.2	1281.7	1182.4	332.6	226.3
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°	9630.2	9630.2	9630.2	9630.2	9630.2	9630.2	9630.2	9630.2	9630.2	9630.2	9630.2
2.5°	9644.0	9671.7	9597.8	9526.2	9461.6	9371.5	9290.7	9223.7	9177.5	9170.6	9147.5
5°	9676.3	9678.6	9537.8	9348.4	9163.7	8960.4	8750.3	8600.2	8459.3	8380.8	8341.5
7.5°	9699.4	9678.6	9424.6	9117.5	8761.8	8392.3	8022.8	7727.2	7498.6	7408.5	7443.2
10°	9690.2	9625.5	9253.7	8761.8	8244.5	7692.6	7161.4	6745.7	6364.7	6168.4	6173.0
12.5°	9639.4	9533.2	8999.7	8362.3	7602.5	6863.5	6050.6	5489.4	5048.3	4787.4	4706.5
15°	9595.5	9410.8	8701.8	7819.6	6875.0	5819.7	4828.9	4136.1	3766.6	3561.1	3558.8
17.5°	9549.3	9293.0	8376.2	7244.6	6039.1	4681.1	3641.9	3113.1	2939.9	2960.6	2926.0
20°	9500.8	9154.4	8036.7	6604.9	5020.6	3491.8	2727.4	2512.6	2561.1	2655.8	2669.7
22.5°	9445.4	9006.6	7671.8	5900.5	3949.1	2628.1	2212.4	2180.1	2304.8	2452.6	2473.4
25°	9360.0	8821.9	7212.2	5163.8	3046.1	2117.7	1937.6	1960.7	2083.1	2207.8	2221.6
27.5°	9239.9	8593.2	6748.0	4244.7	2288.6	1817.5	1771.3	1801.3	1861.4	1937.6	1956.1
30°	9078.2	8334.6	6214.6	3450.2	1833.7	1667.4	1648.9	1665.1	1699.7	1732.0	1741.3
32.5°	8916.5	8085.2	5676.5	2641.9	1635.0	1568.1	1549.6	1549.6	1549.6	1554.2	1556.5
35°	8766.4	7849.6	5099.1	2057.7	1531.1	1489.6	1464.2	1436.4	1431.8	1415.7	1415.7
37.5°	8683.3	7634.8	4484.8	1722.8	1454.9	1424.9	1390.3	1344.1	1318.7	1321.0	1316.4
40°	8699.5	7494.0	3926.0	1533.4	1392.6	1360.2	1307.1	1254.0	1237.8	1237.8	1233.2
42.5°	8881.9	7447.8	3390.2	1434.1	1332.5	1295.6	1228.6	1180.1	1170.9	1168.6	1173.2
45°	9302.2	7560.9	2909.8	1369.5	1281.7	1226.3	1159.3	1115.4	1106.2	1106.2	1103.9
47.5°	10122.1	7928.1	2565.7	1327.9	1244.8	1173.2	1103.9	1060.0	1043.8	1039.2	1039.2
50°	11396.8	8724.9	2309.4	1290.9	1198.6	1124.7	1053.1	1002.3	976.9	974.6	972.3
52.5°	13168.1	9967.3	2210.1	1263.2	1147.8	1073.9	995.3	946.8	914.5	907.6	903.0
55°	15239.7	11701.7	2346.3	1242.5	1094.7	1016.1	935.3	884.5	854.5	840.6	838.3
57.5°	17639.1	13784.7	2863.6	1214.7	1046.2	953.8	875.3	824.5	792.1	776.0	771.3
60°	19793.8	15925.5	3766.6	1198.6	1004.6	886.8	806.0	759.8	729.8	713.6	711.3
62.5°	22160.9	17967.0	4845.1	1242.5	986.1	822.1	741.3	699.7	674.3	658.2	658.2
65°	24689.7	20010.9	5558.7	1390.3	1013.8	771.3	672.0	637.4	614.3	602.8	600.4
67.5°	26394.0	20717.5	4579.5	1542.7	1083.1	715.9	605.1	577.3	563.5	551.9	551.9
69°	26209.3	19823.8	3378.6	1581.9	1103.9	688.2	568.1	547.3	528.8	524.2	519.6
70°	25625.0	18805.4	2831.3	1556.5	1087.7	662.8	545.0	519.6	503.4	498.8	496.5
72.5°	22823.7	16308.9	2108.5	1353.3	926.1	575.0	482.7	459.6	445.7	438.8	438.8
75°	18962.4	13329.8	1646.6	1076.2	725.1	485.0	413.4	394.9	383.4	378.7	376.4
77.5°	10627.8	7443.2	1182.4	842.9	549.6	392.6	346.4	330.2	318.7	314.1	314.1
80°	2960.6	2126.9	695.1	556.6	374.1	297.9	274.8	263.3	247.1	235.6	242.5
82.5°	1115.4	921.4	397.2	334.9	237.9	198.6	191.7	182.4	175.5	159.3	159.3
85°	542.7	448.0	254.0	177.8	131.6	103.9	99.3	94.7	90.1	78.5	80.8
87.5°	187.1	198.6	110.9	64.7	39.3	25.4	20.8	11.5	11.5	11.5	11.5
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)