

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: P533329

Luminaire Tested: **GALN-SA8D-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533329  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-730-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33270 lumens  
Efficiency: N/A  
Efficacy: 67.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

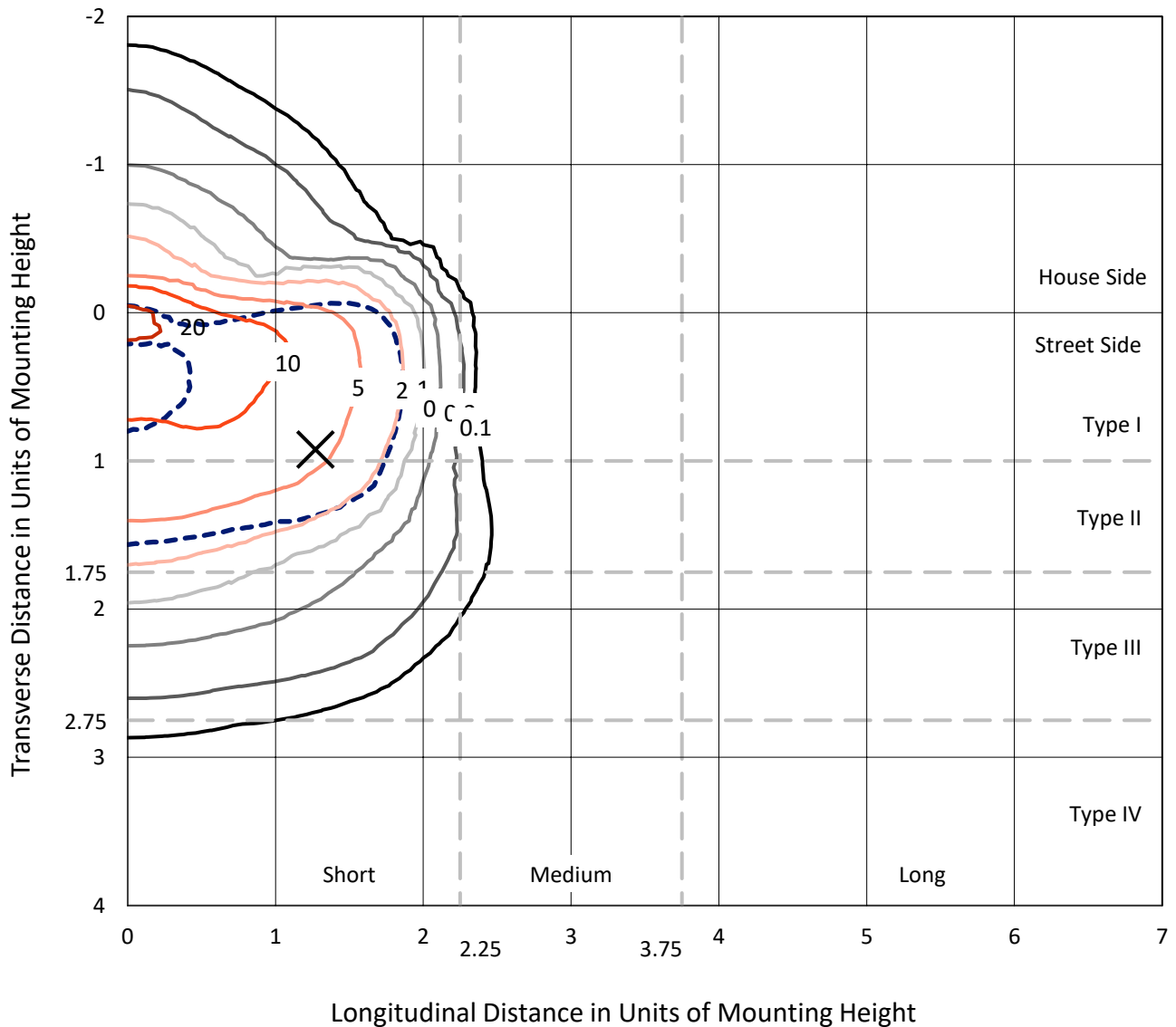
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P533329  
 CATALOG NUMBER: GALN-SA8D-730-U-SL3-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

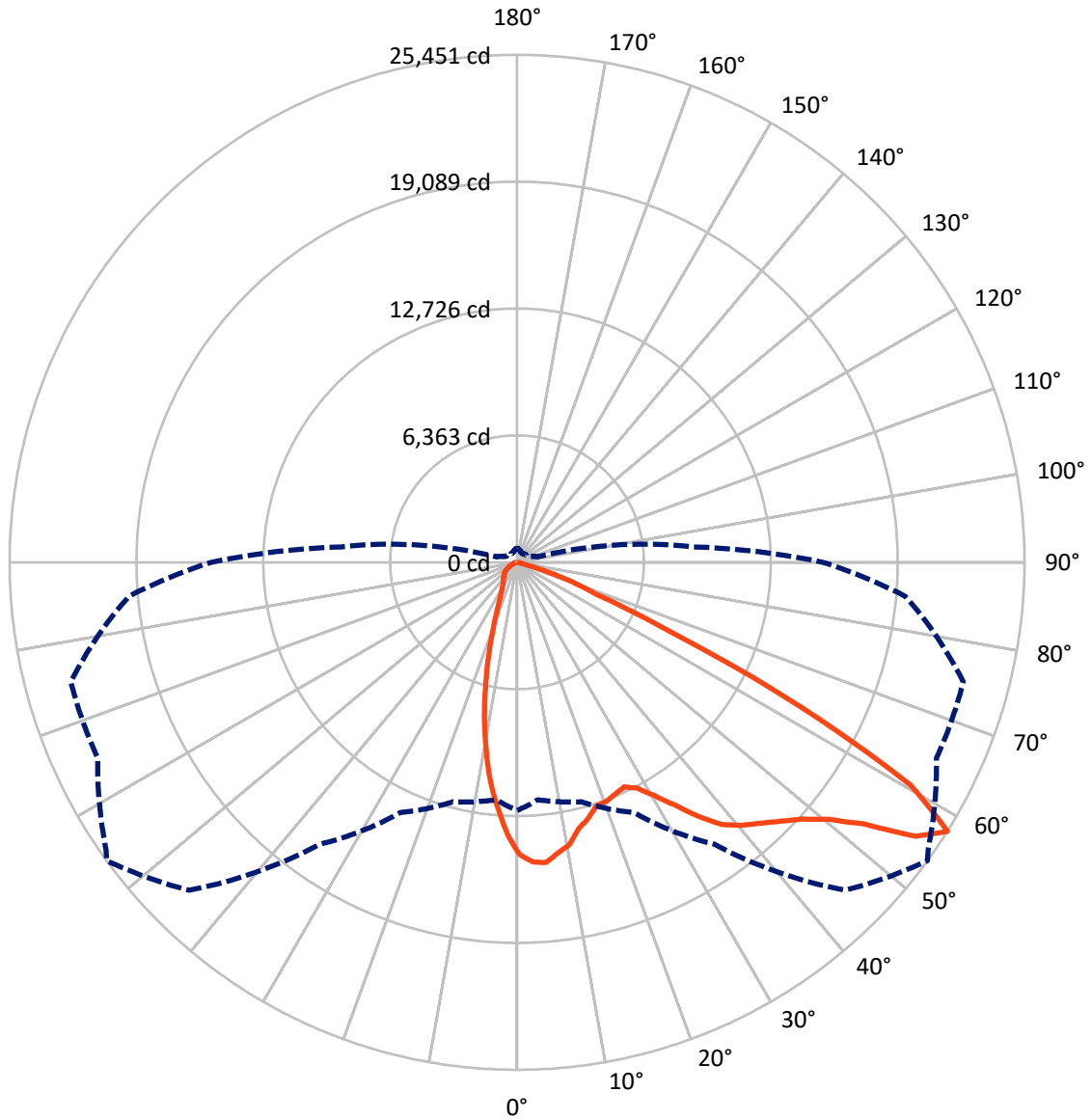
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P533329  
CATALOG NUMBER: GALN-SA8D-730-U-SL3-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P533329  
 CATALOG NUMBER: GALN-SA8D-730-U-SL3-GRSBK

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4701.6	0.0	4701.6
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	28568.4	0.0	28568.4
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	33270.0	0.0	33270.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1226.4	3.7
10°-20°	2618.4	7.9
20°-30°	3469.9	10.4
30°-40°	5042.8	15.2
40°-50°	7477.7	22.5
50°-60°	9350.6	28.1
60°-70°	3688.4	11.1
70°-80°	367.2	1.1
80°-90°	28.6	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°	33270.0	100.0
0°-180°	33270.0	100.0

**Coefficient of Utilization**

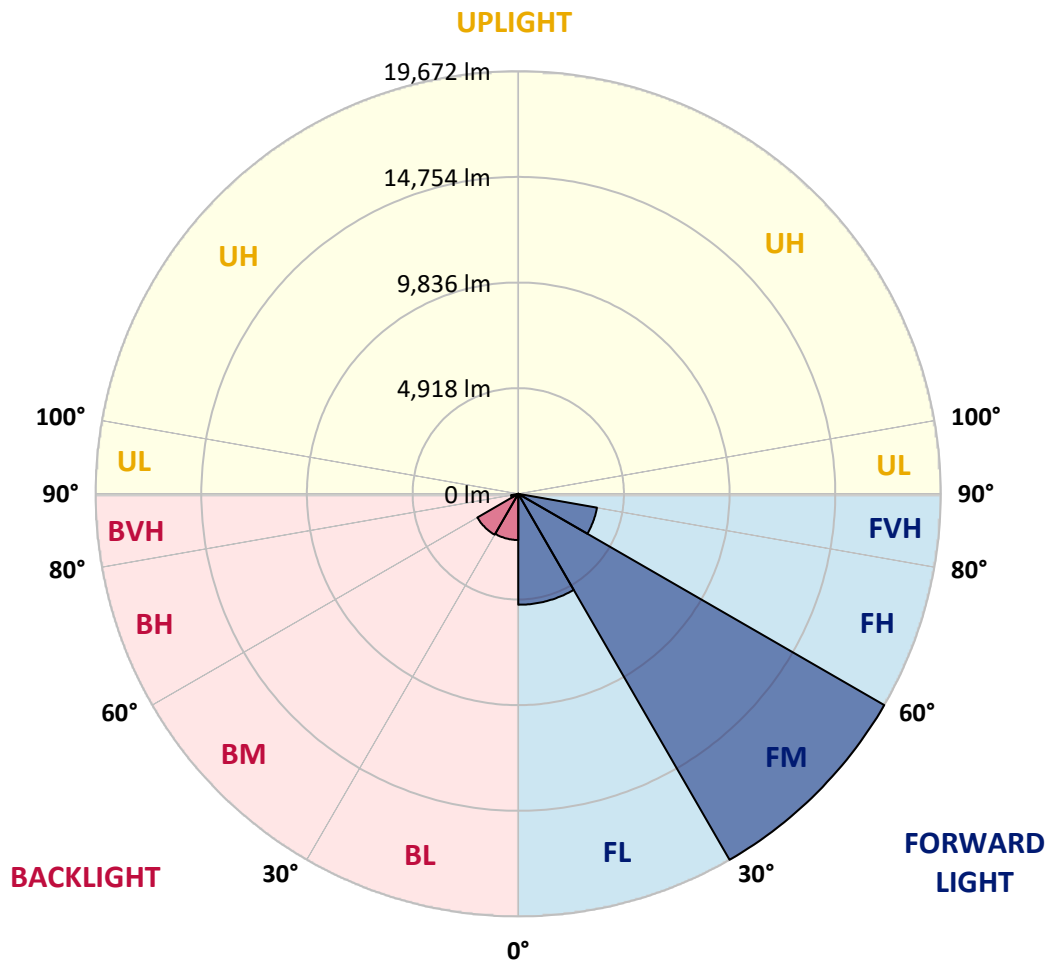


REPORT NUMBER: P533329  
 CATALOG NUMBER: GALN-SA8D-730-U-SL3-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5164.5	15.5			
FM (30°-60°)	19672.5	59.1			
FH (60°-80°)	3718.5	11.2			G2/5000
FVH (80°-90°)	13.0	0.0			G1/100
BL (0°-30°)	2150.3	6.5	B3/2500		
BM (30°-60°)	2198.6	6.6	B2/2500		
BH (60°-80°)	337.1	1.0	B1/500		G1/500
BVH (80°-90°)	15.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





REPORT NUMBER: P533329

CATALOG NUMBER: GALN-SA8D-730-U-SL3-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	14655.9	14655.9	14655.9	14655.9	14655.9	14655.9	14655.9	14655.9	14655.9	14655.9	14655.9
2.5°	15509.6	15348.8	15361.1	15305.5	15231.2	15286.9	15045.6	15101.3	15095.1	14767.2	14550.7
5°	15119.9	15293.1	15113.7	15262.2	15119.9	15274.5	15126.1	15014.7	14835.3	14594.0	14191.9
7.5°	14457.9	14290.9	14340.4	14526.0	14556.9	14903.3	14717.7	14860.0	14785.8	14309.4	13758.8
10°	13127.8	13090.7	13338.2	13585.6	13888.8	14259.9	14402.2	14321.8	14266.1	14086.7	13350.5
12.5°	12107.0	12212.2	12206.0	12614.3	13127.8	13338.2	13709.3	13697.0	14006.3	13672.2	12967.0
15°	11135.7	11191.4	11451.3	11704.9	12274.1	12874.2	13332.0	13393.8	13765.0	13529.9	12670.0
17.5°	10541.8	10461.4	10665.6	10968.7	11550.2	12335.9	12843.2	12991.7	13499.0	13449.5	12329.7
20°	9954.1	9954.1	10121.2	10480.0	11012.0	11896.7	12799.9	12756.6	13499.0	13356.7	11964.7
22.5°	9756.2	9855.1	9898.4	10170.7	10801.7	11562.6	12614.3	12694.8	13604.2	13313.4	11803.9
25°	10028.4	9898.4	9910.8	10127.3	10721.3	11401.8	12478.2	12657.6	13796.0	13529.9	11674.0
27.5°	10071.7	10201.6	10238.7	10387.2	10783.1	11451.3	12818.5	13183.5	14272.3	14037.2	11711.1
30°	10449.0	10579.0	10572.8	10826.4	11098.6	11853.4	13579.4	13653.7	15256.0	14674.4	11940.0
32.5°	10906.8	11043.0	11086.3	11383.2	11599.7	12589.6	14507.4	14699.2	16202.5	15676.7	12540.1
35°	11476.0	11426.5	11624.5	11921.4	12385.4	13666.0	15639.5	15961.2	17223.3	16975.8	13158.7
37.5°	12187.5	12125.6	12317.4	12799.9	13431.0	14940.5	16685.1	16895.4	17965.7	18182.2	14303.3
40°	12688.6	12713.3	13294.8	13944.4	14612.6	16153.0	17347.0	17551.2	18485.3	19308.2	15169.4
42.5°	13523.7	13678.4	14377.5	15169.4	15868.4	17062.4	17885.3	18083.2	18726.6	20211.4	16338.6
45°	14736.3	14668.3	15441.6	16326.2	17099.6	18009.0	18522.5	18454.4	18868.9	21108.4	17074.8
47.5°	16295.3	16307.7	16821.2	17575.9	18380.2	18831.8	19233.9	18992.6	19165.9	22055.0	18058.5
50°	17359.4	17452.2	17866.7	18640.0	19042.1	19735.0	20248.5	20100.0	20044.3	22624.1	18677.1
52.5°	17631.6	17910.0	18132.7	19097.8	20038.2	21133.2	21788.9	22104.5	21114.6	22815.9	19462.8
55°	15577.7	15825.1	16610.8	17934.7	20415.5	23348.0	24251.2	24257.4	22512.8	23669.7	20013.4
57.5°	12453.5	11952.4	12434.9	13839.3	17260.4	23255.2	25451.4	25160.6	23211.8	23168.5	19537.1
60°	8611.6	8487.9	8518.8	9075.6	11946.2	18497.7	22679.8	23057.2	21374.5	20081.5	15466.3
62.5°	6823.7	6718.6	6582.5	6520.6	7417.6	11525.5	15998.4	16530.4	14946.6	13022.6	9168.4
65°	5345.2	5283.3	5301.9	5549.3	5543.1	6539.2	8747.7	8531.2	6829.9	5048.2	2882.9
67.5°	3606.7	3699.5	3773.8	4522.4	4905.9	4553.3	4225.4	4101.7	2221.0	934.2	637.2
70°	2029.2	2041.6	2122.0	2827.2	3724.3	3532.5	2913.9	2913.9	1107.4	340.3	365.0
72.5°	1107.4	1070.3	996.0	1218.7	1658.0	1682.7	1299.2	1132.1	327.9	222.7	204.2
75°	538.2	532.0	457.8	377.4	358.8	297.0	228.9	210.3	148.5	142.3	123.7
77.5°	111.4	105.2	55.7	55.7	61.9	68.1	86.6	86.6	105.2	105.2	86.6
80°	0.0	0.0	6.2	24.7	43.3	61.9	74.2	74.2	86.6	86.6	68.1
82.5°	0.0	0.0	6.2	18.6	37.1	55.7	68.1	74.2	86.6	92.8	74.2
85°	0.0	0.0	0.0	12.4	30.9	43.3	37.1	37.1	30.9	24.7	12.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P533329

CATALOG NUMBER: GALN-SA8D-730-U-SL3-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14655.9	14655.9	14655.9	14655.9	14655.9	14655.9	14655.9	14655.9	14655.9	14655.9	14655.9
2.5°	14439.4	14427.0	14142.4	13981.6	13690.8	13437.1	13233.0	13084.5	13084.5	12991.7	12905.1
5°	14031.0	13925.9	13319.6	12929.8	12379.2	11970.9	11692.5	11476.0	11135.7	11228.5	10863.5
7.5°	13523.7	13257.7	12453.5	11859.6	11098.6	10517.1	9923.2	9397.3	8890.0	8661.1	8784.9
10°	12979.3	12515.3	11432.7	10492.4	9545.8	8481.7	7788.8	6947.5	6427.8	6396.9	6260.8
12.5°	12404.0	11878.1	10560.4	9261.2	8017.7	6737.1	5679.2	4893.5	4540.9	4151.2	4225.4
15°	11970.9	11191.4	9589.1	8023.9	6372.1	5079.1	4015.1	3408.8	3074.7	2981.9	2951.0
17.5°	11500.8	10665.6	8599.3	6706.2	4998.7	3656.2	2889.1	2598.3	2468.4	2468.4	2449.9
20°	11012.0	10071.7	7615.6	5481.3	3749.0	2728.3	2313.8	2221.0	2214.8	2208.6	2208.6
22.5°	10690.3	9391.1	6724.8	4355.3	2827.2	2183.8	2010.6	1973.5	1998.2	2072.5	2072.5
25°	10350.1	8735.4	5741.1	3359.3	2190.0	1874.5	1775.5	1800.3	1862.1	1930.2	1905.5
27.5°	10003.6	8308.5	4813.1	2635.5	1794.1	1639.4	1602.3	1658.0	1726.0	1787.9	1769.3
30°	9923.2	7850.7	3934.6	1998.2	1540.4	1429.1	1453.8	1503.3	1571.4	1596.1	1620.9
32.5°	10046.9	7491.9	3223.2	1639.4	1342.5	1311.5	1311.5	1336.3	1379.6	1435.3	1416.7
35°	10399.6	7287.7	2548.8	1422.9	1231.1	1200.2	1194.0	1218.7	1243.5	1262.1	1243.5
37.5°	10937.8	7126.9	2084.9	1262.1	1156.9	1107.4	1095.0	1088.8	1113.6	1119.8	1132.1
40°	11624.5	7213.5	1769.3	1163.1	1082.6	1027.0	989.8	989.8	989.8	1008.4	1014.6
42.5°	12366.9	7331.0	1528.1	1107.4	1014.6	946.5	909.4	897.0	909.4	934.2	928.0
45°	13146.4	7559.9	1373.4	1020.8	952.7	866.1	816.6	804.2	835.2	884.7	878.5
47.5°	13876.4	7887.8	1255.9	965.1	890.9	810.4	748.6	736.2	791.9	859.9	866.1
50°	14606.4	8457.0	1212.6	921.8	847.6	754.8	699.1	686.7	748.6	835.2	853.7
52.5°	15447.8	9069.4	1181.6	866.1	798.1	711.5	649.6	637.2	705.3	816.6	822.8
55°	15998.4	9589.1	1156.9	767.1	705.3	643.4	593.9	587.7	662.0	760.9	785.7
57.5°	15355.0	8865.3	1070.3	668.1	600.1	569.2	525.9	525.9	587.7	680.5	699.1
60°	11643.0	5833.9	760.9	538.2	507.3	488.7	470.2	470.2	519.7	587.7	593.9
62.5°	6817.6	3142.8	488.7	433.1	433.1	414.5	383.6	383.6	433.1	470.2	476.4
65°	2023.0	1008.4	395.9	371.2	365.0	334.1	303.1	297.0	334.1	352.6	346.4
67.5°	581.5	464.0	327.9	309.3	303.1	253.6	235.1	228.9	235.1	222.7	216.5
70°	346.4	315.5	253.6	259.8	228.9	185.6	167.0	160.8	148.5	129.9	117.5
72.5°	191.8	191.8	185.6	198.0	160.8	123.7	105.2	86.6	68.1	55.7	49.5
75°	117.5	123.7	129.9	136.1	105.2	80.4	68.1	43.3	24.7	12.4	12.4
77.5°	80.4	86.6	92.8	99.0	86.6	74.2	55.7	30.9	6.2	0.0	0.0
80°	61.9	68.1	80.4	86.6	92.8	99.0	74.2	30.9	6.2	0.0	0.0
82.5°	68.1	74.2	92.8	86.6	86.6	86.6	68.1	30.9	6.2	0.0	0.0
85°	12.4	18.6	30.9	30.9	43.3	55.7	43.3	12.4	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)