

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: P530515

Luminaire Tested: **GALN-SA5D-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530515  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-730-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26319 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

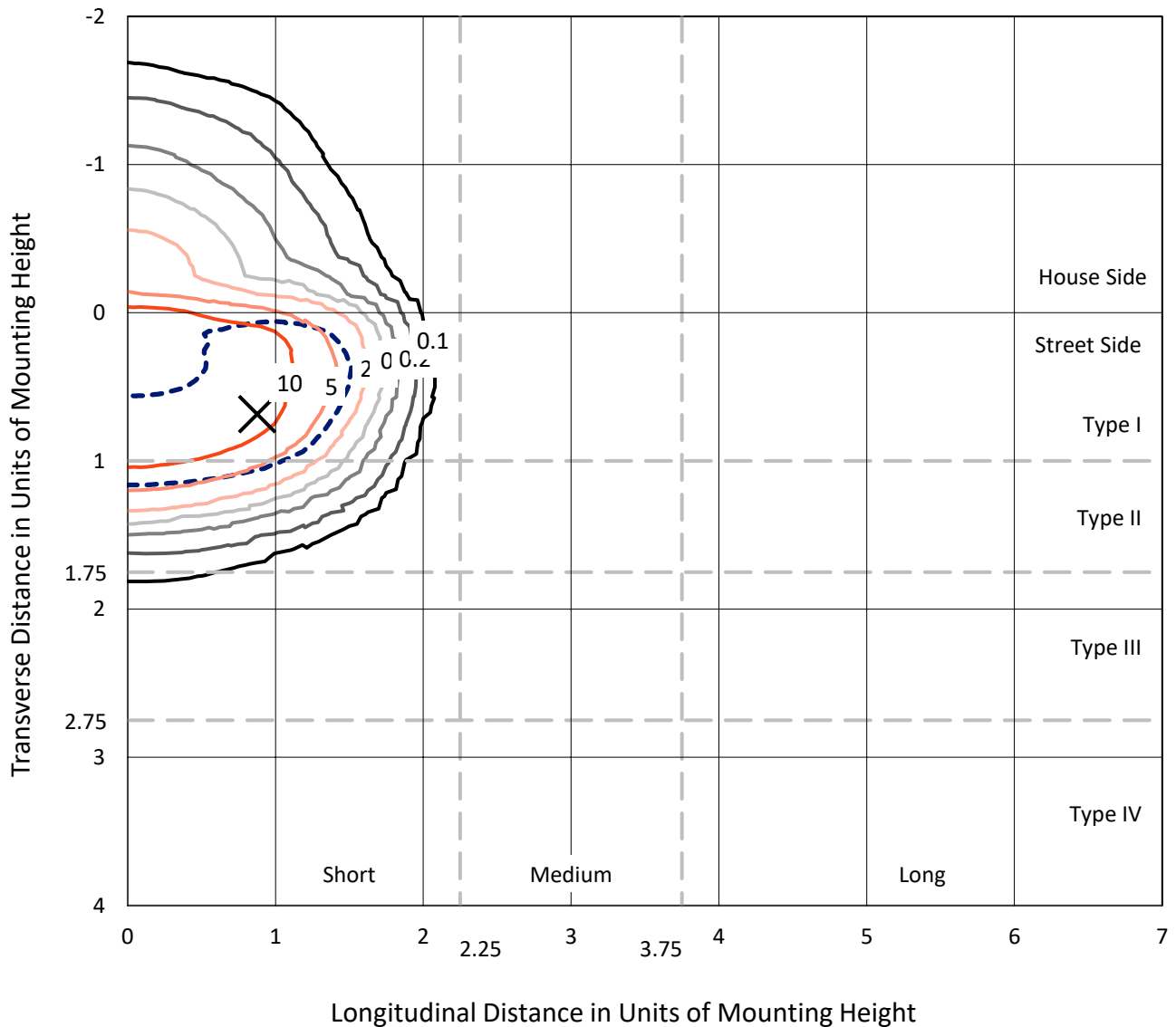
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

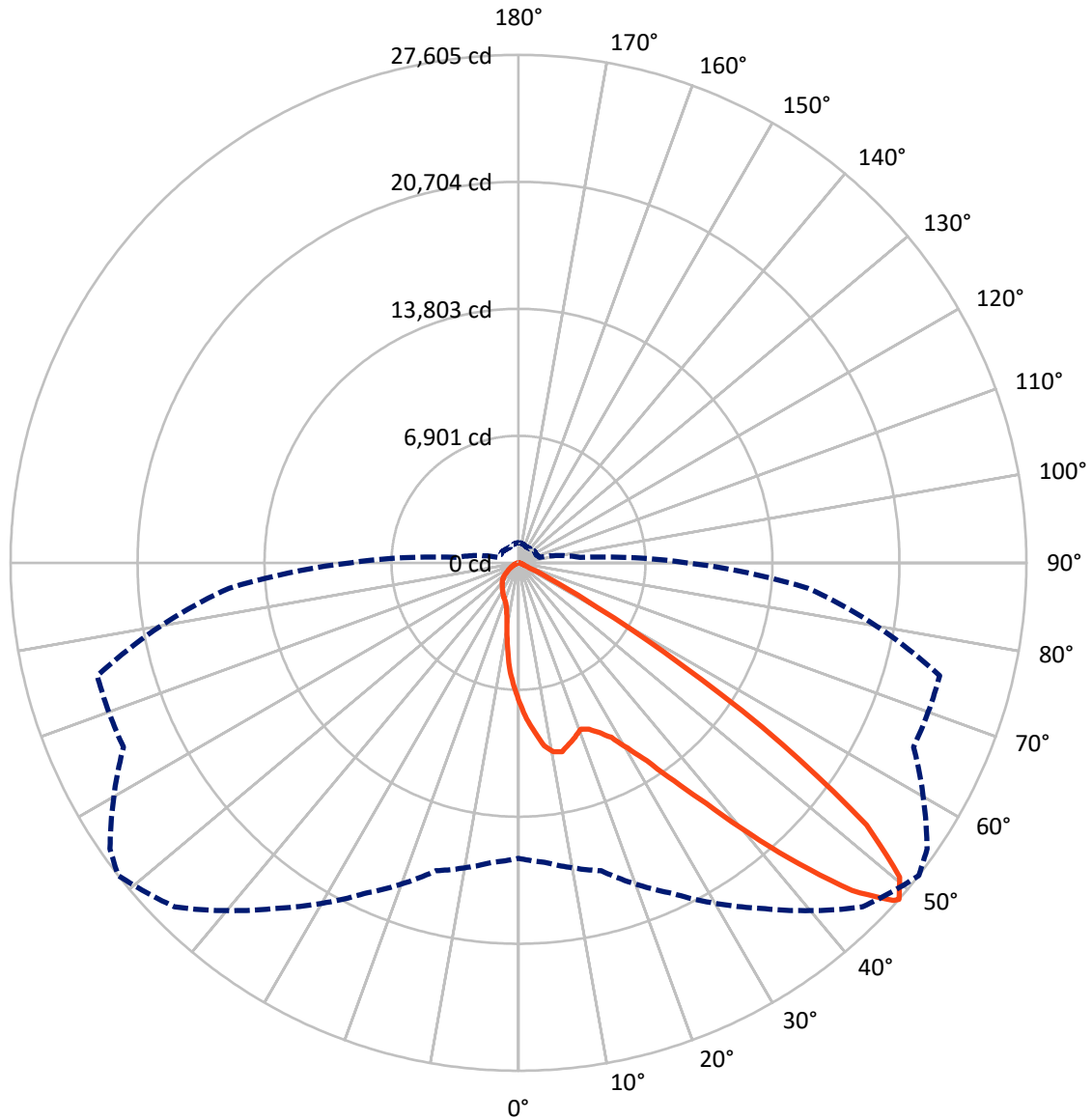
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3204.6	0.0	3204.6
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	23114.5	0.0	23114.5
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	26319.0	0.0	26319.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	695.7	2.6
10°-20°	1818.0	6.9
20°-30°	3104.1	11.8
30°-40°	5716.2	21.7
40°-50°	8877.2	33.7
50°-60°	5342.6	20.3
60°-70°	617.9	2.3
70°-80°	119.6	0.5
80°-90°	27.7	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°	26319.0	100.0
0°-180°	26319.0	100.0

**Coefficient of Utilization**



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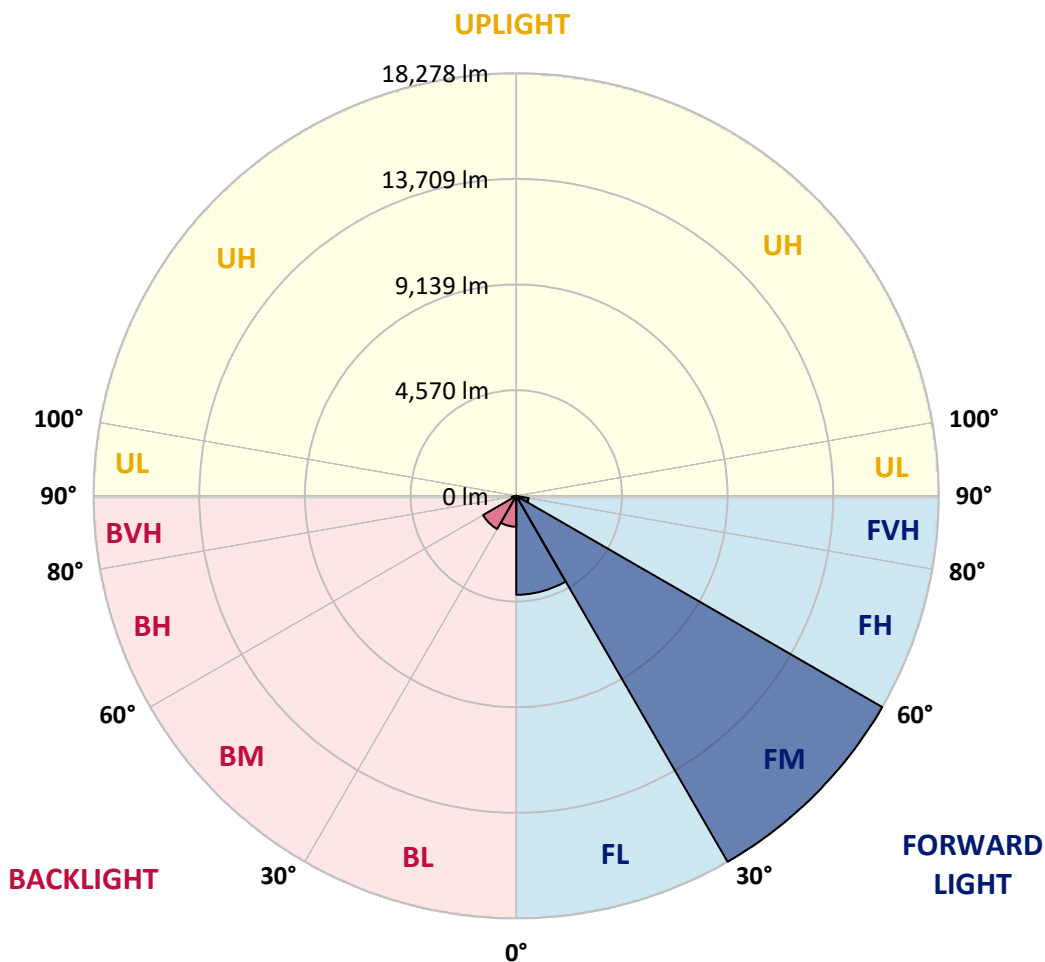
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4279.1	16.3			
FM (30°-60°)	18278.0	69.4			
FH (60°-80°)	544.1	2.1			G0/660
FVH (80°-90°)	13.2	0.1			G1/100
BL (0°-30°)	1338.6	5.1	B3/2500		
BM (30°-60°)	1658.0	6.3	B2/2500		
BH (60°-80°)	193.4	0.7	B1/500		G1/500
BVH (80°-90°)	14.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5
2.5°	9211.9	9000.9	9020.1	8881.9	8801.4	8670.9	8494.4	8459.9	8268.1	8007.2	7742.4
5°	10040.6	9990.8	10056.0	9856.5	9864.1	9649.3	9234.9	9242.6	8801.4	8375.5	7965.0
7.5°	10094.3	9979.2	10044.5	10221.0	10324.5	10286.2	10052.1	9848.8	9430.6	8805.2	8206.7
10°	9039.3	9257.9	9327.0	9618.6	10033.0	10470.3	10443.5	10455.0	10105.9	9288.6	8413.9
12.5°	8406.2	8260.4	8494.4	8670.9	9296.3	10144.2	10531.7	10616.1	10643.0	9756.7	8621.1
15°	8118.4	8118.4	8156.8	8206.7	8659.4	9442.1	10232.5	10478.0	11057.4	10370.6	8947.2
17.5°	8298.8	8291.1	8344.8	8241.2	8410.0	9012.4	9956.2	10236.3	11521.6	10972.9	9204.2
20°	8847.4	8874.3	8839.7	8540.5	8552.0	9004.7	9649.3	10090.5	11836.2	11494.7	9545.7
22.5°	9610.9	9626.3	9430.6	9104.5	9008.6	9231.1	9825.8	10163.4	12089.4	12120.1	9649.3
25°	10493.4	10432.0	10393.6	9933.2	9641.6	9833.4	10224.8	10420.5	12246.7	12657.3	9944.7
27.5°	11717.3	11594.5	11360.4	10949.9	10735.1	10462.7	10742.7	11065.0	12695.6	13409.2	10267.0
30°	13524.3	13416.9	12960.4	12430.9	11866.9	11598.3	11686.6	11863.1	13505.2	14280.2	10692.9
32.5°	16244.6	16018.2	15358.3	14349.2	13581.9	12841.4	12818.4	13006.4	14230.3	15484.9	11199.3
35°	19241.0	19172.0	18201.3	17161.5	15676.7	14533.4	14552.6	14652.3	15619.2	17065.6	11863.1
37.5°	21232.3	21612.1	20994.4	19877.9	18631.0	16996.6	16582.2	16616.7	17526.0	18937.9	13060.1
40°	22770.8	22448.5	22521.4	22260.5	21408.8	20296.1	19379.1	19198.8	19732.1	21009.7	14249.5
42.5°	22099.4	22114.7	22563.6	23181.3	23392.3	23311.8	22375.6	22034.1	21619.8	22705.6	15381.3
45°	20204.0	20599.2	21182.4	22816.8	24251.7	25598.4	25414.3	24846.4	22924.2	24048.4	16033.5
47.5°	17180.7	17165.4	18120.7	20246.2	23434.5	26588.3	27424.7	27025.7	23848.9	23898.8	15899.3
48°	16064.2	16340.5	17326.5	19828.0	22916.6	26442.5	27605.0	27102.4	23691.6	23699.3	15784.2
50°	11874.6	11824.7	13052.4	16121.8	20468.8	24846.4	26845.3	27236.7	23687.7	22690.2	14978.5
52.5°	6273.0	6487.8	7381.8	10136.5	14472.0	20334.5	23680.1	24290.1	22851.3	21040.4	13819.8
55°	2666.5	2409.4	3096.2	4577.2	8141.5	13585.7	17372.5	18730.7	19321.6	18619.5	12089.4
57.5°	951.5	1039.7	1197.0	1722.7	3422.3	7435.5	10359.1	11414.2	13386.2	13662.5	8237.4
60°	610.0	621.5	671.4	790.4	1285.3	2866.0	4914.8	5755.0	6649.0	6863.8	3844.4
62.5°	471.9	475.8	498.8	518.0	610.0	1112.6	1845.4	2186.9	2271.3	1952.9	1009.1
65°	395.2	399.0	406.7	406.7	433.5	521.8	644.6	709.8	690.6	682.9	571.7
67.5°	303.1	310.8	326.1	326.1	341.5	318.4	356.8	379.8	429.7	521.8	487.3
70°	237.9	241.7	253.2	260.9	260.9	230.2	257.1	280.1	314.6	387.5	383.7
72.5°	184.2	191.8	199.5	199.5	188.0	157.3	184.2	203.3	226.4	268.6	260.9
75°	142.0	142.0	145.8	118.9	92.1	80.6	111.3	134.3	168.8	176.5	145.8
77.5°	38.4	42.2	38.4	34.5	38.4	57.6	72.9	84.4	107.4	107.4	95.9
80°	0.0	3.8	11.5	23.0	38.4	53.7	65.2	72.9	84.4	92.1	88.2
82.5°	0.0	3.8	11.5	23.0	34.5	42.2	57.6	61.4	69.1	80.6	80.6
85°	0.0	3.8	7.7	15.3	23.0	26.9	26.9	23.0	23.0	19.2	15.3
87.5°	0.0	0.0	3.8	7.7	7.7	11.5	11.5	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5
2.5°	7638.9	7519.9	7339.6	7055.7	6783.3	6606.8	6438.0	6250.0	6146.4	6138.7	6081.2
5°	7730.9	7462.4	7032.7	6545.4	6023.6	5574.7	5122.0	4826.6	4561.8	4416.0	4389.2
7.5°	7780.8	7431.7	6737.2	5920.0	5029.9	4297.1	3790.7	3418.5	3272.7	3165.3	3161.4
10°	7884.4	7378.0	6296.0	5091.3	3990.2	3249.7	2900.5	2731.7	2651.2	2620.5	2574.4
12.5°	7961.1	7278.2	5843.3	4239.5	3153.8	2693.4	2539.9	2501.5	2505.4	2520.7	2501.5
15°	8068.6	7190.0	5233.3	3479.9	2647.3	2424.8	2424.8	2432.5	2486.2	2493.9	2490.0
17.5°	8060.9	7017.3	4604.0	2866.0	2340.4	2309.7	2321.2	2394.1	2428.6	2440.1	2413.3
20°	8153.0	6856.2	3955.6	2447.8	2167.7	2213.8	2290.5	2309.7	2351.9	2359.6	2328.9
22.5°	8126.1	6453.3	3353.3	2117.9	2037.3	2125.5	2202.3	2225.3	2213.8	2190.8	2186.9
25°	8076.2	6108.0	2800.8	1899.2	1941.4	2037.3	2110.2	2068.0	2045.0	2048.8	2052.6
27.5°	7988.0	5670.6	2344.2	1745.7	1810.9	1952.9	1949.0	1933.7	1956.7	1937.5	1956.7
30°	7972.6	5233.3	1968.2	1607.6	1715.0	1818.6	1826.3	1853.1	1880.0	1845.4	1880.0
32.5°	7995.7	4753.7	1699.7	1523.2	1657.5	1661.3	1745.7	1772.6	1753.4	1676.6	1684.3
35°	8172.2	4385.3	1504.0	1477.1	1565.4	1569.2	1649.8	1615.2	1530.8	1484.8	1511.7
37.5°	8544.3	4078.4	1411.9	1434.9	1442.6	1492.5	1496.3	1427.3	1434.9	1431.1	1446.4
40°	9020.1	3844.4	1346.7	1396.6	1388.9	1423.4	1285.3	1323.7	1358.2	1369.7	1377.4
42.5°	9346.2	3675.6	1304.5	1335.2	1319.8	1258.4	1181.7	1220.1	1246.9	1289.1	1296.8
45°	9492.0	3541.3	1254.6	1227.7	1227.7	1116.5	1085.8	1093.5	1154.8	1200.9	1193.2
47.5°	9254.1	3410.8	1166.4	1085.8	1112.6	1020.6	986.0	986.0	1051.3	1108.8	1097.3
48°	9162.0	3357.1	1170.2	1055.1	1074.3	1005.2	970.7	963.0	1035.9	1089.6	1089.6
50°	8705.5	3157.6	1070.4	970.7	932.3	924.6	901.6	909.3	955.3	1005.2	1005.2
52.5°	7815.3	2727.9	905.5	832.6	763.5	809.5	821.1	805.7	828.7	874.8	870.9
55°	6522.4	2094.8	725.1	690.6	636.9	686.8	709.8	690.6	667.6	702.1	702.1
57.5°	4178.2	1128.0	579.3	587.0	533.3	583.2	602.4	556.3	514.1	541.0	537.1
60°	1883.8	675.3	475.8	464.2	429.7	487.3	518.0	464.2	406.7	425.9	445.1
62.5°	706.0	479.6	360.6	353.0	345.3	399.0	414.4	372.2	314.6	326.1	330.0
65°	518.0	422.0	287.8	260.9	276.2	314.6	306.9	264.7	226.4	226.4	234.0
67.5°	441.2	368.3	234.0	203.3	203.3	207.2	191.8	168.8	157.3	165.0	172.7
70°	345.3	291.6	184.2	157.3	142.0	126.6	111.3	107.4	95.9	107.4	103.6
72.5°	222.5	195.7	142.0	118.9	107.4	88.2	72.9	69.1	57.6	53.7	53.7
75°	118.9	118.9	111.3	95.9	84.4	69.1	57.6	46.0	30.7	23.0	23.0
77.5°	84.4	92.1	99.8	92.1	76.7	57.6	46.0	30.7	15.3	7.7	7.7
80°	80.6	92.1	99.8	88.2	76.7	57.6	42.2	23.0	11.5	3.8	3.8
82.5°	72.9	84.4	92.1	80.6	69.1	49.9	38.4	23.0	11.5	3.8	3.8
85°	15.3	19.2	23.0	23.0	26.9	34.5	26.9	19.2	7.7	3.8	3.8
87.5°	11.5	11.5	11.5	11.5	11.5	11.5	7.7	7.7	3.8	3.8	3.8
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)