

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: P454649

Luminaire Tested: **GALN-SA5D-730-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454649  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5D-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34988 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

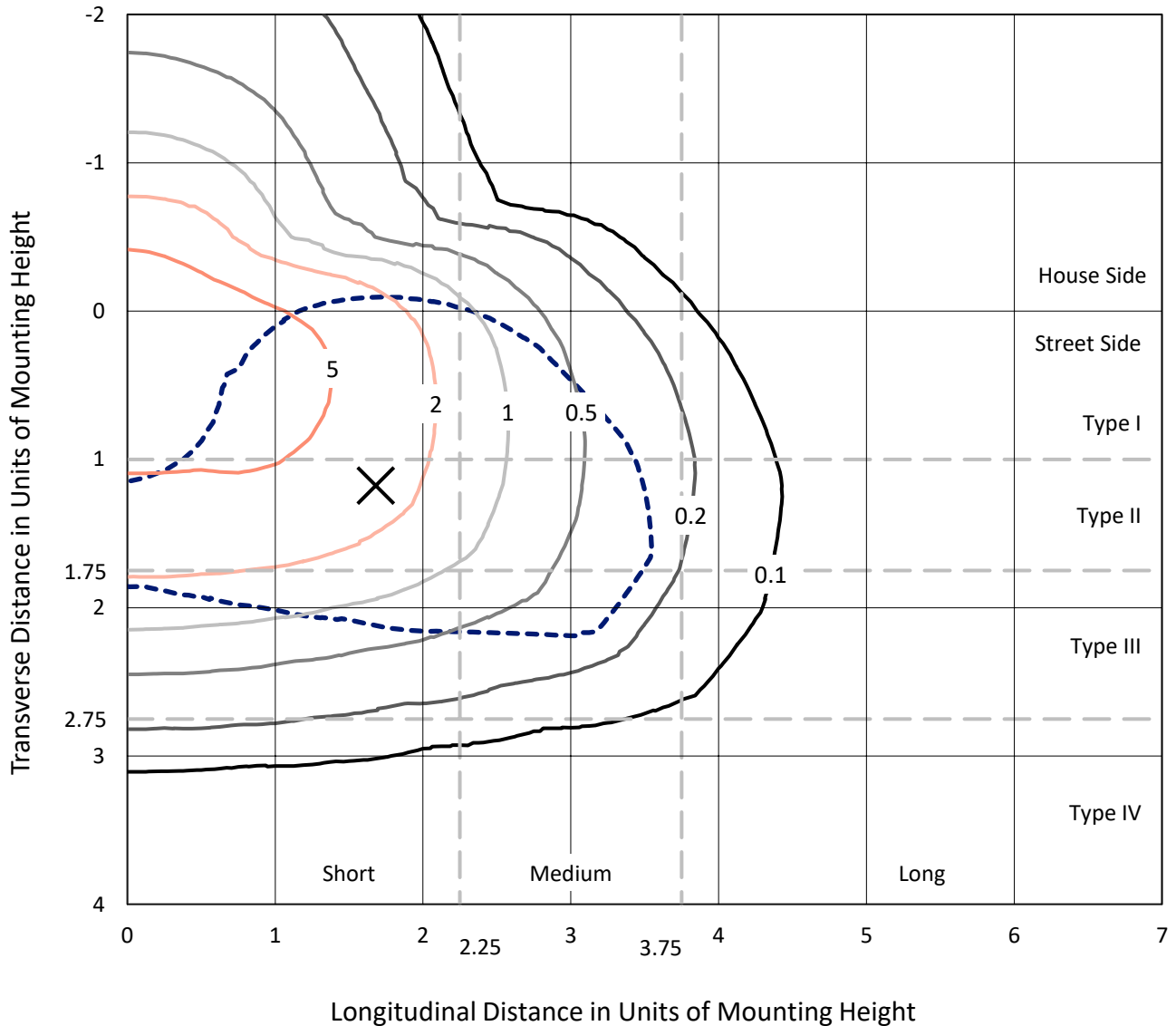
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P454649  
 CATALOG NUMBER: GALN-SA5D-730-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

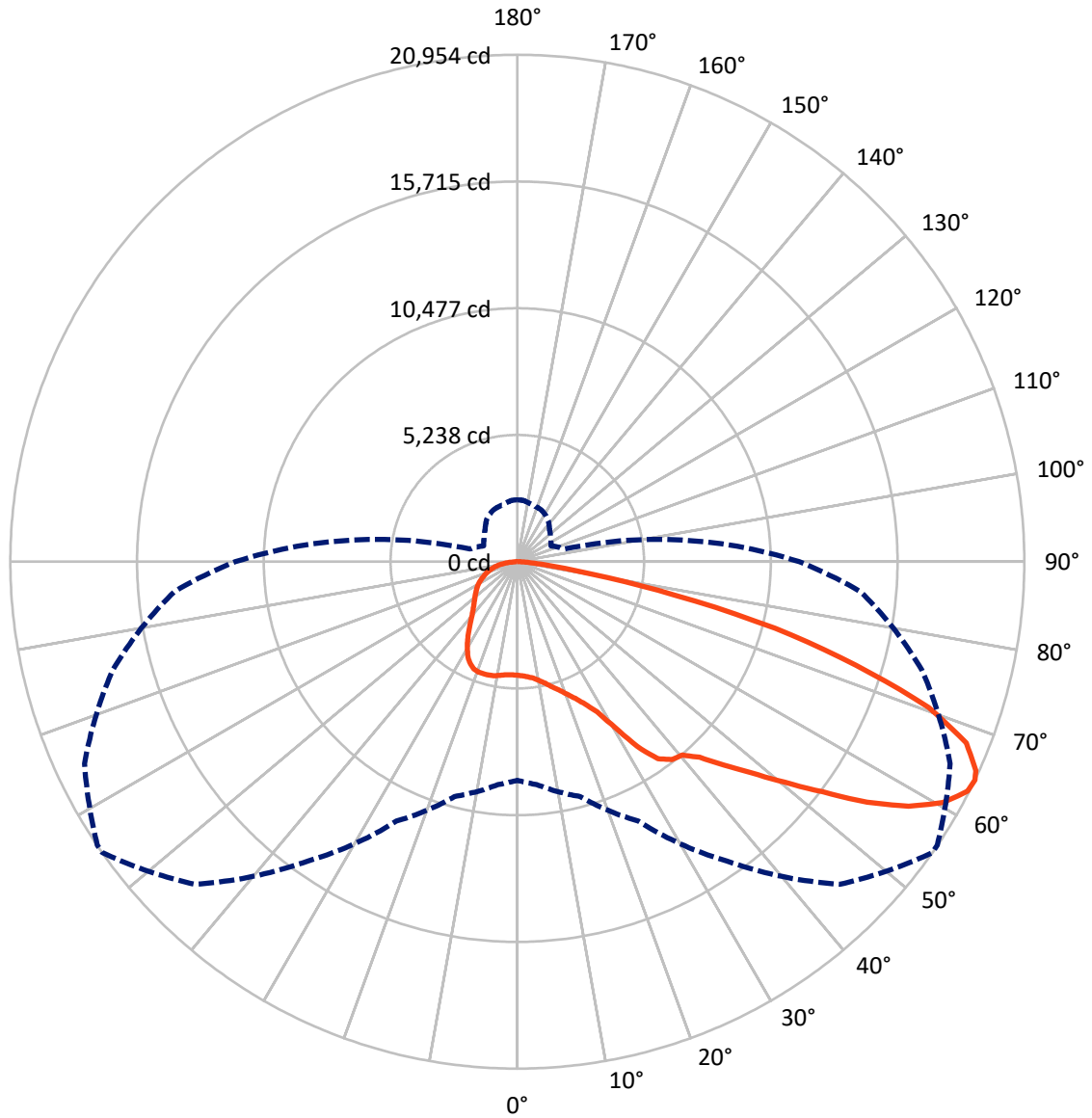
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Short - N/A

REPORT NUMBER: P454649  
CATALOG NUMBER: GALN-SA5D-730-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P454649

CATALOG NUMBER: GALN-SA5D-730-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8499.3	0.0	8499.3
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	26488.7	0.0	26488.7
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	34988.0	0.0	34988.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	456.6	1.3
10°-20°	1440.8	4.1
20°-30°	2565.0	7.3
30°-40°	3946.6	11.3
40°-50°	5594.6	16.0
50°-60°	8098.1	23.1
60°-70°	8380.6	24.0
70°-80°	3924.7	11.2
80°-90°	581.0	1.7
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°	34988.0	100.0
0°-180°	34988.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P454649

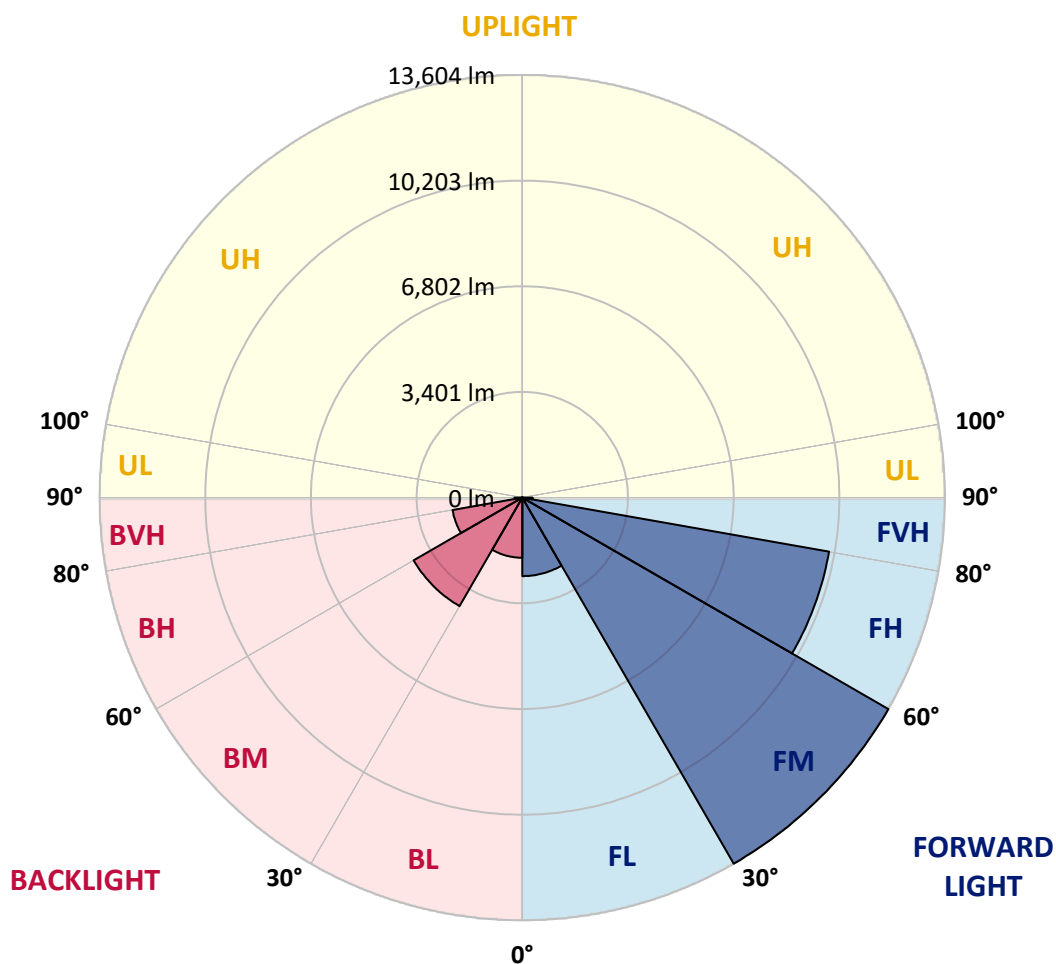
CATALOG NUMBER: GALN-SA5D-730-U-T3

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2526.7	7.2			
FM	(30°-60°)	13604.3	38.9			
FH	(60°-80°)	10025.1	28.7			G4/12000
FVH	(80°-90°)	332.7	1.0			G3/500
BL	(0°-30°)	1935.8	5.5	B3/2500		
BM	(30°-60°)	4034.9	11.5	B3/5000		
BH	(60°-80°)	2280.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	248.3	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





REPORT NUMBER: P454649

CATALOG NUMBER: GALN-SA5D-730-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4694.3	4694.3	4694.3	4694.3	4694.3	4694.3	4694.3	4694.3	4694.3	4694.3	4694.3
2.5°	4747.0	4745.0	4750.9	4745.0	4748.9	4735.3	4729.4	4733.3	4727.5	4717.7	4700.2
5°	4805.5	4803.5	4805.5	4797.7	4801.6	4793.8	4780.1	4784.0	4774.3	4752.8	4727.5
7.5°	4905.0	4897.2	4897.2	4895.2	4887.4	4875.7	4866.0	4862.1	4852.3	4825.0	4786.0
10°	5033.7	5033.7	5035.6	5020.0	5029.8	5008.3	4998.6	4996.6	4963.5	4928.4	4873.8
12.5°	5203.4	5213.1	5207.3	5199.5	5195.6	5187.8	5154.6	5162.4	5125.3	5064.9	4998.6
15°	5414.0	5429.6	5419.8	5415.9	5406.2	5376.9	5363.3	5357.4	5308.7	5220.9	5133.1
17.5°	5692.9	5673.4	5665.6	5655.8	5614.9	5593.4	5570.0	5566.1	5523.2	5419.8	5283.3
20°	5936.7	5964.0	5948.4	5938.6	5897.7	5856.7	5839.2	5833.3	5796.2	5683.1	5464.7
22.5°	6227.3	6233.1	6239.0	6215.6	6196.1	6164.8	6133.6	6123.9	6110.2	5993.2	5726.0
25°	6537.4	6560.8	6541.3	6517.8	6494.4	6492.5	6521.7	6517.8	6512.0	6398.9	6073.2
27.5°	7042.5	7063.9	7069.8	7044.4	6954.7	6962.5	7028.8	7050.3	7140.0	6952.8	6519.8
30°	7327.2	7348.7	7397.4	7493.0	7635.4	7760.2	7920.1	7968.9	8054.7	7701.7	7050.3
32.5°	7502.7	7510.5	7598.3	7775.8	8202.9	8669.0	9103.9	9121.5	9176.1	8680.7	7535.9
35°	7779.7	7785.5	7855.7	8050.8	8552.0	9328.2	10001.1	10022.5	9977.7	8985.0	7762.1
37.5°	8121.0	8136.6	8181.4	8343.3	8942.1	9880.1	10373.6	10358.0	9960.1	9226.8	8161.9
40°	8618.3	8618.3	8565.6	8784.1	9353.6	10196.1	10504.2	10476.9	10371.6	9926.9	8770.4
42.5°	9057.1	9049.3	9174.1	9322.4	9868.4	10683.7	11052.3	11097.1	11270.7	10806.5	9462.8
45°	9628.6	9663.7	9733.9	10003.0	10744.1	11516.4	11992.3	12035.2	12280.9	11842.1	10272.1
47.5°	10205.8	10217.5	10437.9	10796.8	11828.5	12645.6	13035.7	13105.9	13330.2	13053.3	11143.9
50°	10615.4	10726.6	11079.6	11645.1	12946.0	14022.5	14326.8	14410.6	14806.6	14371.6	12160.0
52.5°	11048.4	11157.6	11588.6	12450.6	14229.3	15430.6	15805.1	15861.7	16273.2	15705.6	13199.5
55°	11418.9	11520.3	12009.8	13164.4	15251.2	16868.0	17546.7	17480.4	17677.4	16733.4	14001.1
57.5°	11479.4	11561.3	12177.6	13620.8	16019.6	18100.6	19073.8	19112.8	18884.6	17501.8	14662.2
60°	11011.3	11179.0	11887.0	13572.0	16364.8	18958.7	20212.7	20240.0	19592.6	17895.8	14925.5
62.5°	10182.4	10164.9	11021.1	12788.0	15881.2	19153.7	20883.6	20854.4	19869.5	17706.6	14670.0
64°	9037.6	9248.2	10047.9	11824.6	15101.0	18853.4	20953.9	20938.2	19736.9	17312.7	14235.1
65°	8339.4	8327.7	9117.6	11036.7	14324.8	18400.9	20829.0	20807.6	19459.9	16959.7	13897.7
67.5°	6020.5	6047.8	6827.9	8516.9	11645.1	16632.0	20015.8	19935.8	18367.8	15789.5	12614.4
70°	3647.0	3662.6	4275.0	5650.0	8358.9	13445.3	18042.1	18046.0	16696.4	14042.0	10736.3
72.5°	1921.0	1962.0	2207.7	3208.2	5076.6	9433.5	14636.9	14984.0	14334.6	11984.5	8481.8
75°	1068.8	1074.6	1248.2	1581.7	2590.0	5279.4	11001.6	11101.0	11348.7	9646.1	6272.1
77.5°	815.2	826.9	881.5	1021.9	1410.1	2447.6	6658.3	7157.5	7998.1	6800.6	3578.8
80°	661.1	672.8	719.7	803.5	938.1	1160.4	3093.2	3362.3	4280.9	3019.0	1396.4
82.5°	514.9	507.1	567.5	622.1	682.6	686.5	1269.6	1404.2	1743.6	1298.9	604.6
85°	382.3	382.3	431.0	419.3	440.8	401.8	559.7	618.2	698.2	551.9	280.8
87.5°	152.1	167.7	282.8	253.5	197.0	158.0	206.7	218.4	241.8	216.5	117.0
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: P454649

CATALOG NUMBER: GALN-SA5D-730-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4694.3	4694.3	4694.3	4694.3	4694.3	4694.3	4694.3	4694.3	4694.3	4694.3	4694.3
2.5°	4702.1	4708.0	4694.3	4684.6	4680.7	4674.8	4669.0	4670.9	4678.7	4686.5	4684.6
5°	4725.5	4727.5	4704.1	4692.4	4684.6	4676.8	4676.8	4682.6	4698.2	4709.9	4709.9
7.5°	4784.0	4784.0	4750.9	4729.4	4717.7	4704.1	4700.2	4702.1	4713.8	4729.4	4731.4
10°	4875.7	4867.9	4825.0	4791.8	4770.4	4737.2	4708.0	4692.4	4698.2	4708.0	4708.0
12.5°	4986.9	4965.4	4910.8	4866.0	4813.3	4750.9	4690.4	4659.2	4657.3	4667.0	4663.1
15°	5105.8	5082.4	5006.4	4924.5	4832.8	4741.1	4669.0	4624.1	4589.0	4579.3	4600.7
17.5°	5244.3	5195.6	5090.2	4977.1	4840.6	4721.6	4608.5	4516.9	4454.4	4436.9	4442.7
20°	5412.0	5347.7	5205.3	5027.8	4834.8	4651.4	4475.9	4353.0	4251.6	4220.4	4224.3
22.5°	5644.1	5533.0	5324.3	5053.2	4786.0	4518.8	4275.0	4115.1	3992.2	3943.5	3972.7
25°	5907.4	5786.5	5437.4	5047.3	4659.2	4306.2	4037.1	3828.4	3717.2	3645.1	3660.7
27.5°	6270.2	6055.6	5558.3	4994.7	4477.9	4046.8	3734.8	3537.8	3436.4	3399.3	3416.9
30°	6734.3	6404.7	5689.0	4852.3	4191.2	3719.2	3430.5	3301.8	3241.4	3194.6	3210.2
32.5°	7069.8	6650.5	5718.2	4612.4	3881.1	3420.8	3223.8	3128.3	3061.9	3017.1	3026.8
35°	7309.7	6859.1	5704.6	4317.9	3557.3	3175.1	3060.0	2982.0	2874.7	2777.2	2759.7
37.5°	7631.5	7120.5	5605.1	3996.1	3237.5	3009.3	2927.4	2783.1	2629.0	2498.3	2492.5
40°	8124.9	7426.7	5392.5	3617.8	2964.4	2886.4	2787.0	2599.7	2434.0	2328.6	2320.8
42.5°	8633.9	7709.5	5103.9	3219.9	2740.1	2757.7	2636.8	2451.5	2350.1	2281.8	2274.0
45°	9256.0	8015.7	4791.8	2874.7	2574.4	2636.8	2506.1	2398.8	2338.4	2293.5	2281.8
47.5°	9928.9	8329.7	4440.8	2564.6	2434.0	2525.6	2451.5	2402.7	2369.6	2338.4	2324.7
50°	10654.4	8680.7	4111.2	2315.0	2307.2	2410.6	2445.7	2428.1	2408.6	2398.8	2387.1
52.5°	11450.1	9039.6	3834.3	2139.5	2196.0	2328.6	2447.6	2461.3	2461.3	2455.4	2447.6
55°	11988.4	9289.2	3553.4	1997.1	2082.9	2262.3	2443.7	2496.4	2515.9	2508.1	2500.3
57.5°	12386.3	9425.7	3200.4	1874.2	1987.3	2198.0	2422.3	2500.3	2519.8	2529.5	2525.6
60°	12468.2	9299.0	2738.2	1745.5	1884.0	2104.4	2344.2	2441.8	2467.1	2527.6	2533.4
62.5°	12099.6	8908.9	2277.9	1618.7	1757.2	1962.0	2238.9	2375.4	2426.2	2519.8	2529.5
64°	11647.1	8472.0	2022.4	1538.8	1675.3	1882.0	2186.3	2357.9	2424.2	2549.0	2556.8
65°	11315.5	8154.1	1862.5	1488.1	1622.6	1829.4	2157.0	2363.7	2441.8	2593.9	2605.6
67.5°	10094.7	7060.0	1540.7	1369.1	1497.8	1739.7	2162.9	2412.5	2437.9	2611.4	2609.5
70°	8353.1	5620.7	1291.1	1259.9	1376.9	1667.5	2139.5	2334.5	2336.4	2451.5	2424.2
72.5°	6254.6	4154.1	1119.5	1146.8	1242.3	1495.9	2020.5	2229.2	2196.0	2211.6	2184.3
75°	4296.5	2748.0	963.4	1025.8	1101.9	1322.3	1852.8	2024.4	1971.7	1952.2	1932.7
77.5°	2293.5	1519.3	801.6	906.9	957.6	1142.9	1616.8	1782.6	1728.0	1651.9	1626.5
80°	928.3	715.8	645.5	750.9	780.1	920.5	1345.7	1449.1	1408.1	1275.5	1232.6
82.5°	466.1	429.1	507.1	590.9	592.9	657.2	1000.5	1098.0	1006.3	844.5	807.4
85°	243.8	251.6	349.1	415.4	366.7	355.0	600.7	665.0	610.4	530.5	477.8
87.5°	87.8	101.4	183.3	181.4	128.7	68.3	132.6	64.4	35.1	21.5	27.3
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)