

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: P454645

Luminaire Tested: **GALN-SA5D-730-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454645  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
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-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35483 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

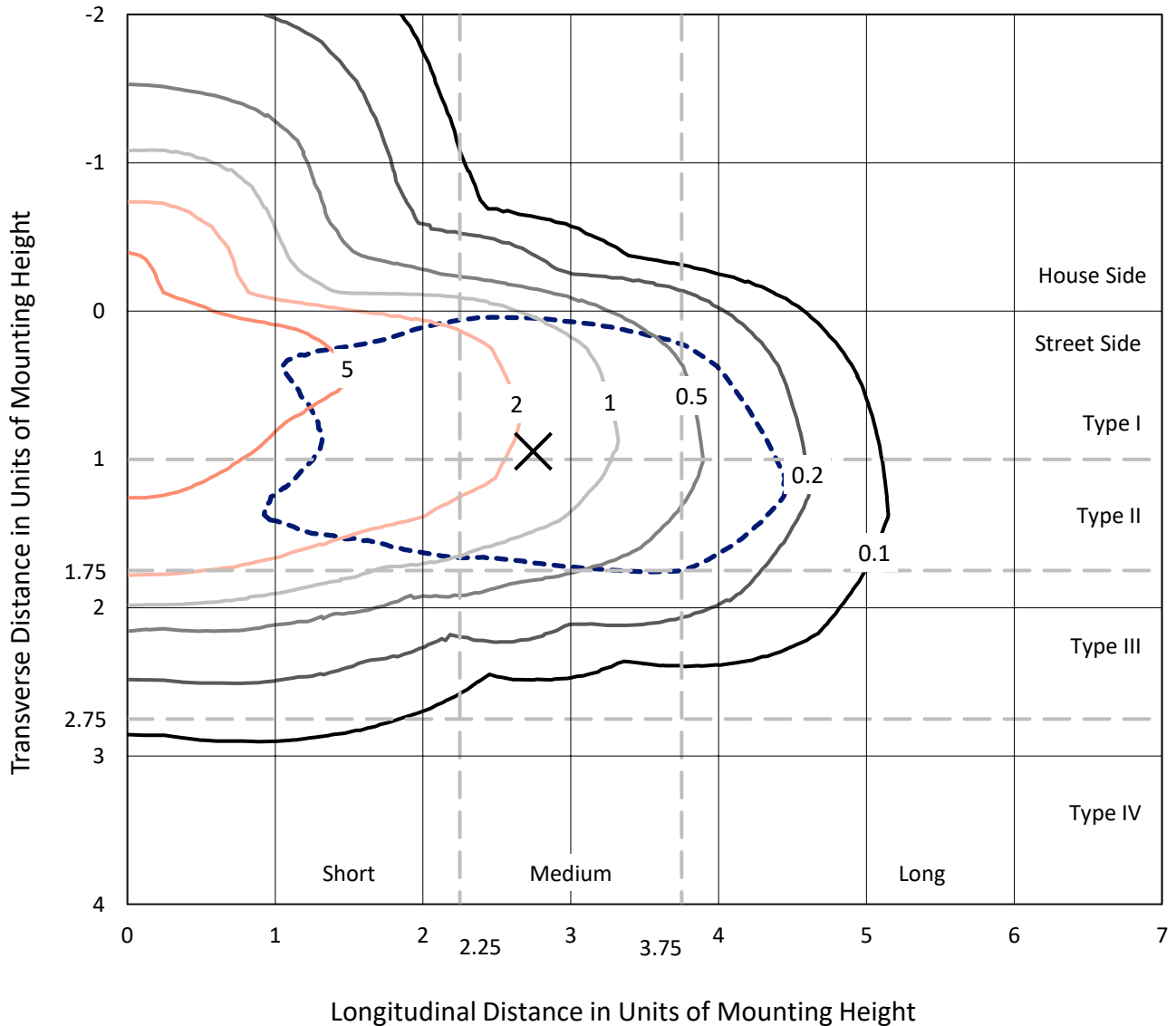
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

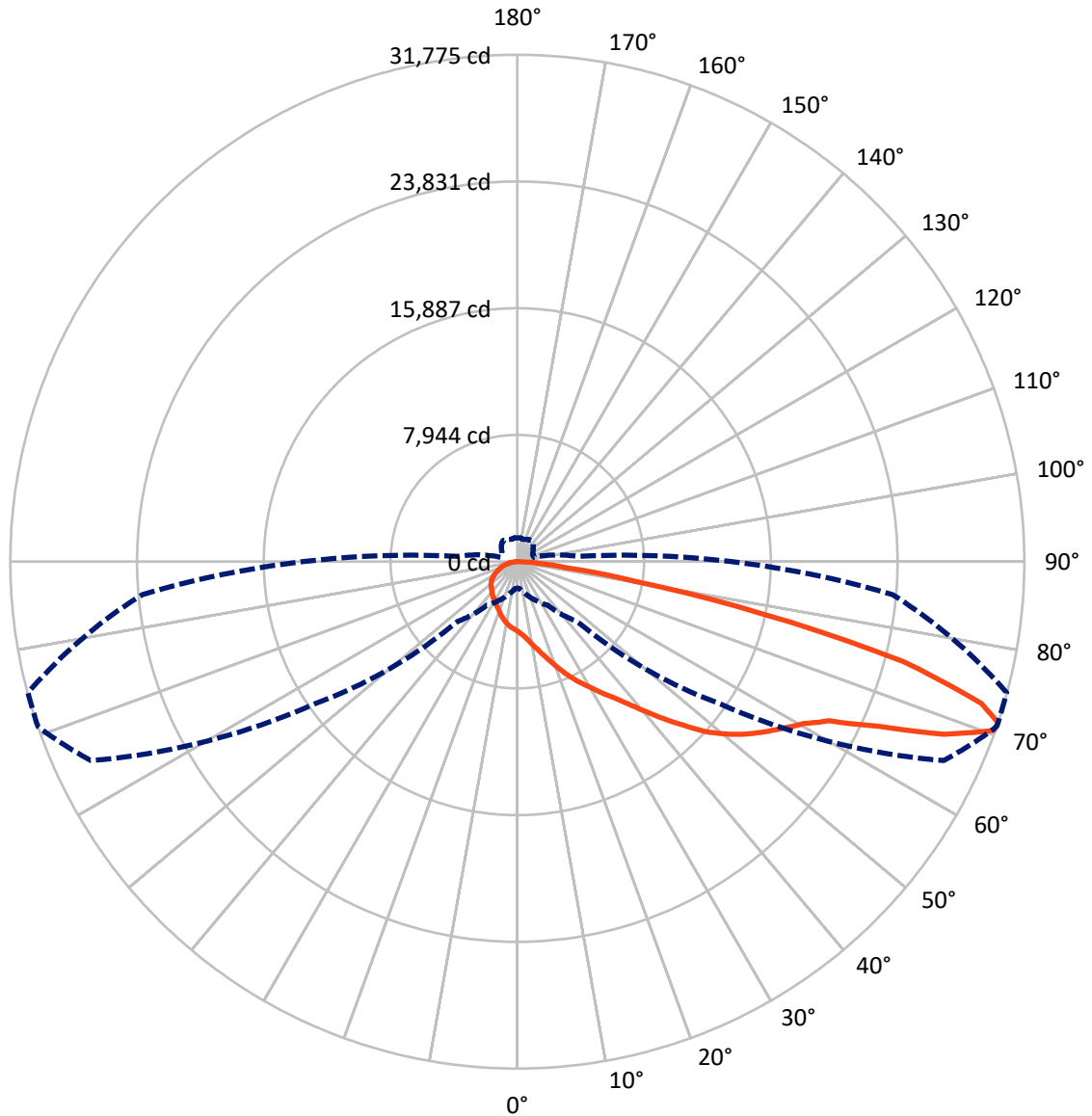
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6381.5	0.0	6381.5
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	29101.5	0.0	29101.5
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	35483.0	0.0	35483.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.3	1.2
10°-20°	1420.6	4.0
20°-30°	2482.6	7.0
30°-40°	3692.6	10.4
40°-50°	5440.6	15.3
50°-60°	7616.9	21.5
60°-70°	8519.2	24.0
70°-80°	5203.9	14.7
80°-90°	669.4	1.9
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°	35483.0	100.0
0°-180°	35483.0	100.0

**Coefficient of Utilization**



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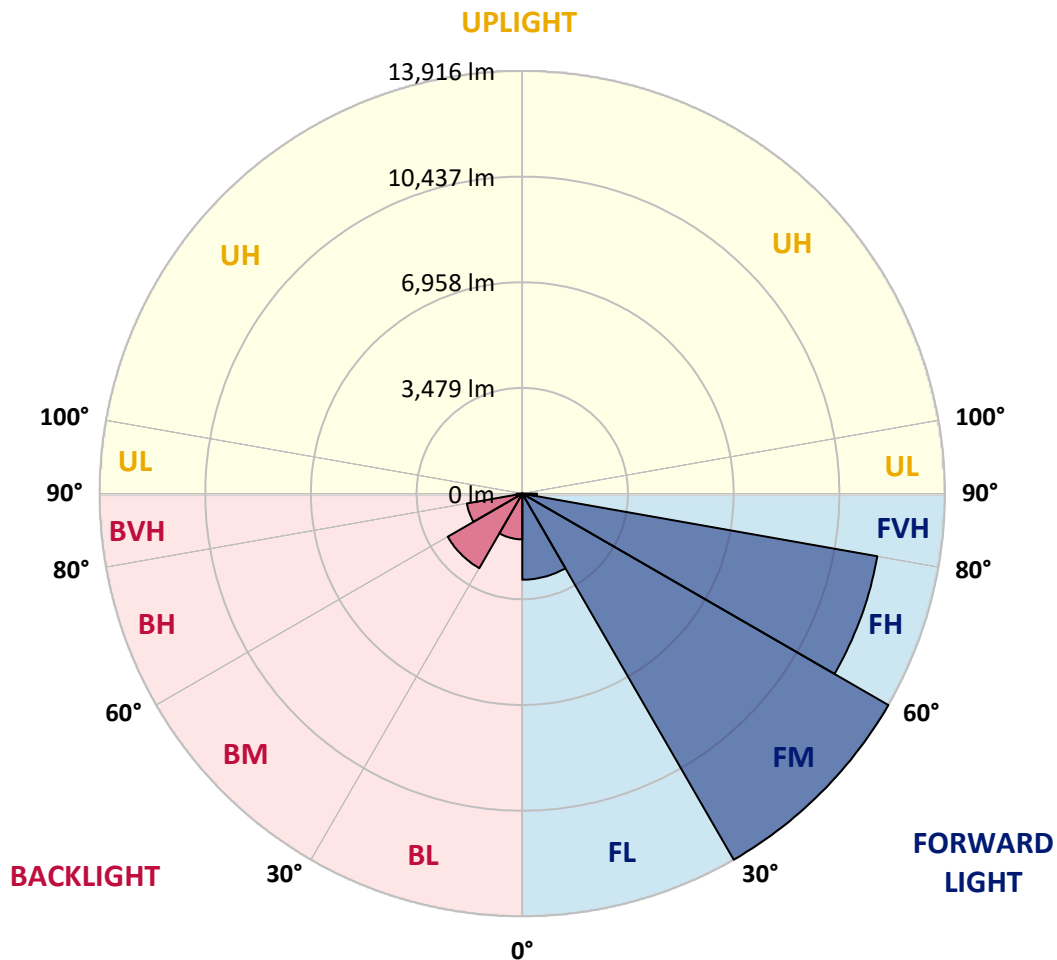
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2835.1	8.0			
FM	(30°-60°)	13915.7	39.2			
FH	(60°-80°)	11869.0	33.4			G4/12000
FVH	(80°-90°)	481.7	1.4			G3/500
BL	(0°-30°)	1505.4	4.2	B3/2500		
BM	(30°-60°)	2834.3	8.0	B3/5000		
BH	(60°-80°)	1854.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	187.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4354.8	4354.8	4354.8	4354.8	4354.8	4354.8	4354.8	4354.8	4354.8	4354.8	4354.8
2.5°	4834.6	4811.2	4813.1	4780.0	4737.1	4690.3	4624.0	4565.5	4518.7	4491.4	4411.4
5°	5357.3	5333.8	5304.6	5232.4	5201.2	5086.2	4939.9	4807.3	4705.9	4649.3	4489.4
7.5°	5780.4	5774.6	5766.8	5725.8	5645.9	5486.0	5361.2	5131.0	4980.9	4873.6	4600.6
10°	6041.8	6051.5	6057.4	6065.2	6032.0	5948.2	5776.5	5486.0	5294.8	5158.3	4744.9
12.5°	6174.4	6184.1	6217.3	6289.5	6334.3	6324.6	6184.1	5899.4	5636.1	5456.7	4898.9
15°	6256.3	6271.9	6330.4	6426.0	6576.1	6671.7	6603.4	6340.2	6051.5	5839.0	5082.3
17.5°	6346.0	6363.6	6427.9	6564.4	6761.4	6968.1	7042.2	6816.0	6502.0	6248.5	5287.0
20°	6396.7	6420.1	6511.8	6691.2	6921.3	7221.7	7467.4	7348.4	7005.2	6724.4	5523.0
22.5°	6478.6	6498.1	6576.1	6767.3	7042.2	7418.6	7892.5	7867.2	7564.9	7202.2	5782.4
25°	6701.0	6732.2	6771.2	6886.2	7151.5	7619.5	8245.5	8421.0	8107.1	7701.4	6020.3
27.5°	7120.2	7145.6	7143.7	7159.3	7309.4	7793.1	8551.7	8969.1	8645.3	8206.5	6250.5
30°	7598.1	7607.8	7615.6	7580.5	7613.7	7970.5	8832.5	9511.2	9187.5	8725.3	6451.3
32.5°	8179.2	8198.7	8132.4	8042.7	8015.4	8233.8	9064.6	10053.4	9829.1	9251.8	6650.2
35°	8865.7	8916.4	8781.8	8623.9	8512.7	8612.2	9376.7	10607.2	10486.3	9924.7	6913.5
37.5°	9649.7	9712.1	9587.3	9277.2	9119.2	9146.5	9784.2	11291.8	11317.1	10691.1	7305.5
40°	10291.3	10373.2	10377.1	9938.3	9698.4	9729.6	10301.1	12028.9	12319.5	11638.9	7767.7
42.5°	10714.5	10794.5	10878.3	10620.9	10369.3	10546.8	10903.7	12828.5	13446.8	12789.5	8413.2
45°	11178.7	11250.8	11297.6	11180.6	11040.2	11500.4	11631.1	13678.8	14648.1	14074.7	9119.2
47.5°	11716.9	11796.9	11841.7	11730.6	11677.9	12337.1	12415.1	14472.6	15931.3	15322.9	9899.3
50°	12434.6	12495.1	12471.6	12401.4	12389.7	12978.7	13167.9	15215.6	16990.3	16666.6	10708.7
52.5°	13327.8	13400.0	13425.3	13325.8	13281.0	13437.0	13774.4	15892.3	17953.7	17821.1	11572.6
55°	13868.0	13983.1	14369.2	14525.2	14632.5	14029.9	14427.7	16639.3	18817.7	19038.0	12500.9
57.5°	13175.7	13323.9	14187.8	14967.9	15976.2	15512.0	15354.1	17419.4	19681.6	20217.9	13612.5
60°	11486.8	11519.9	12633.5	14070.8	16099.1	17417.4	17286.7	18659.7	20617.7	21407.6	15077.1
62.5°	7968.6	8038.8	9355.2	11648.7	14581.8	18103.9	20574.8	20801.0	21959.5	23188.1	17224.3
65°	4109.1	4017.5	5216.8	7321.1	10993.4	16473.5	23238.8	24738.5	24869.2	25973.0	20247.2
67.5°	2529.4	2570.4	3132.1	4274.9	6500.1	11972.4	22959.9	29549.7	28861.3	29391.7	23053.5
70°	1899.5	1950.2	2336.4	2925.3	3962.8	6845.3	18464.7	30715.9	31677.4	31540.9	23907.7
71°	1651.8	1704.5	2106.2	2662.0	3329.0	5283.1	15556.9	29495.1	31774.9	31751.5	23585.9
72.5°	1408.1	1441.2	1755.2	2254.5	2806.4	3703.5	11687.7	26452.8	30419.5	31197.6	22437.3
75°	1105.8	1131.1	1271.5	1720.1	2209.6	2274.0	6271.9	19831.8	24984.3	26466.4	18679.2
77.5°	901.0	918.6	990.7	1277.4	1704.5	1610.9	3290.0	12908.5	15652.5	17144.4	11003.1
80°	715.7	735.2	778.1	865.9	1277.4	1148.7	1569.9	6541.0	7561.0	7545.4	4391.9
82.5°	555.8	561.7	612.4	635.8	873.7	815.2	850.3	2769.3	3067.7	3169.1	1585.5
85°	351.0	368.6	542.2	487.6	522.7	477.8	419.3	1099.9	1355.4	1335.9	633.8
87.5°	107.3	113.1	183.3	206.7	232.1	208.7	154.1	323.7	395.9	429.0	158.0
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°	4354.8	4354.8	4354.8	4354.8	4354.8	4354.8	4354.8	4354.8	4354.8	4354.8	4354.8
2.5°	4380.2	4358.7	4282.7	4220.3	4161.8	4097.4	4042.8	4027.2	4013.6	4007.7	4005.7
5°	4421.1	4356.8	4206.6	4083.8	3986.2	3896.5	3840.0	3814.6	3789.3	3789.3	3797.1
7.5°	4479.7	4362.6	4130.6	3947.2	3824.4	3740.5	3699.6	3695.7	3701.5	3707.4	3709.3
10°	4544.0	4358.7	4019.4	3791.2	3682.0	3643.0	3645.0	3678.1	3709.3	3732.7	3736.6
12.5°	4606.4	4335.3	3888.7	3645.0	3574.8	3582.6	3637.2	3711.3	3771.7	3804.9	3806.8
15°	4676.6	4298.3	3730.8	3506.5	3483.1	3543.5	3645.0	3758.1	3849.7	3904.3	3910.2
17.5°	4735.1	4235.9	3565.0	3371.9	3401.2	3512.3	3652.8	3799.0	3910.2	3978.4	3990.1
20°	4801.4	4155.9	3393.4	3243.2	3327.1	3477.2	3637.2	3795.1	3910.2	3976.5	3992.1
22.5°	4854.1	4042.8	3229.6	3137.9	3260.8	3434.3	3584.5	3711.3	3804.9	3840.0	3863.4
25°	4875.5	3900.4	3075.5	3052.1	3208.1	3364.1	3465.5	3537.7	3566.9	3563.0	3572.8
27.5°	4863.8	3736.6	2942.9	2983.8	3141.8	3254.9	3305.6	3299.8	3247.1	3198.4	3221.8
30°	4815.1	3541.6	2831.7	2913.6	3056.0	3118.4	3110.6	3034.5	2935.1	2843.4	2849.3
32.5°	4727.3	3331.0	2728.4	2833.7	2935.1	2962.4	2909.7	2810.3	2667.9	2548.9	2531.4
35°	4653.2	3130.1	2636.7	2742.0	2814.2	2800.5	2749.8	2621.1	2492.4	2387.1	2369.5
37.5°	4641.5	2958.5	2548.9	2638.6	2679.6	2660.1	2597.7	2488.5	2441.7	2361.7	2352.0
40°	4703.9	2837.6	2459.2	2529.4	2548.9	2533.3	2465.1	2402.7	2445.6	2426.1	2426.1
42.5°	4873.6	2773.2	2379.3	2420.2	2435.8	2447.5	2398.8	2346.1	2398.8	2309.1	2279.8
45°	5142.7	2775.2	2307.1	2313.0	2359.8	2400.7	2367.6	2289.6	2262.3	2082.8	2047.7
47.5°	5538.6	2841.5	2248.6	2211.5	2295.4	2363.7	2316.9	2203.7	2082.8	1963.9	1942.4
50°	6000.8	2960.4	2195.9	2106.2	2209.6	2316.9	2281.8	2149.1	2024.3	1952.2	1938.5
52.5°	6513.7	3110.6	2131.6	1989.2	2104.3	2295.4	2289.6	2141.3	1969.7	1921.0	1909.3
55°	7147.6	3258.8	2051.6	1852.7	2010.7	2277.9	2268.1	2077.0	1958.0	1922.9	1919.0
57.5°	7884.7	3473.3	1936.6	1714.2	1903.4	2205.7	2184.2	2038.0	1919.0	1893.7	1891.7
60°	9072.4	3806.8	1772.7	1587.5	1794.2	2078.9	2106.2	1971.7	1856.6	1850.8	1848.8
62.5°	10634.5	4274.9	1603.1	1456.8	1667.4	1915.1	1993.1	1882.0	1790.3	1819.6	1823.5
65°	12791.5	4668.8	1427.6	1345.7	1527.0	1757.1	1885.9	1798.1	1716.2	1772.7	1772.7
67.5°	14197.6	4676.6	1267.6	1230.6	1384.7	1624.5	1772.7	1698.6	1620.6	1716.2	1720.1
70°	13905.1	4097.4	1135.0	1109.7	1246.2	1482.2	1647.9	1589.4	1499.7	1585.5	1554.3
71°	13433.1	3775.6	1082.4	1062.9	1191.6	1413.9	1589.4	1540.7	1451.0	1507.5	1490.0
72.5°	12680.3	3278.3	996.6	1000.5	1109.7	1328.1	1507.5	1456.8	1367.1	1398.3	1392.5
75°	10718.4	2862.9	852.2	869.8	953.7	1181.8	1343.7	1304.7	1213.0	1213.0	1207.2
77.5°	6701.0	2000.9	707.9	717.7	809.3	1012.2	1154.5	1121.4	1033.6	1004.4	996.6
80°	2500.2	1033.6	553.9	565.6	622.1	797.6	955.6	924.4	834.7	801.5	770.3
82.5°	945.9	518.8	407.6	397.8	458.3	608.5	748.9	711.8	641.6	561.7	538.3
85°	356.9	257.4	249.6	241.8	269.1	360.8	464.2	456.4	382.2	325.7	319.8
87.5°	93.6	83.9	97.5	72.2	76.1	68.3	70.2	29.3	13.7	5.9	3.9
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)