

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: P458508

Luminaire Tested: **GALN-SA9D-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57029 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 552
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

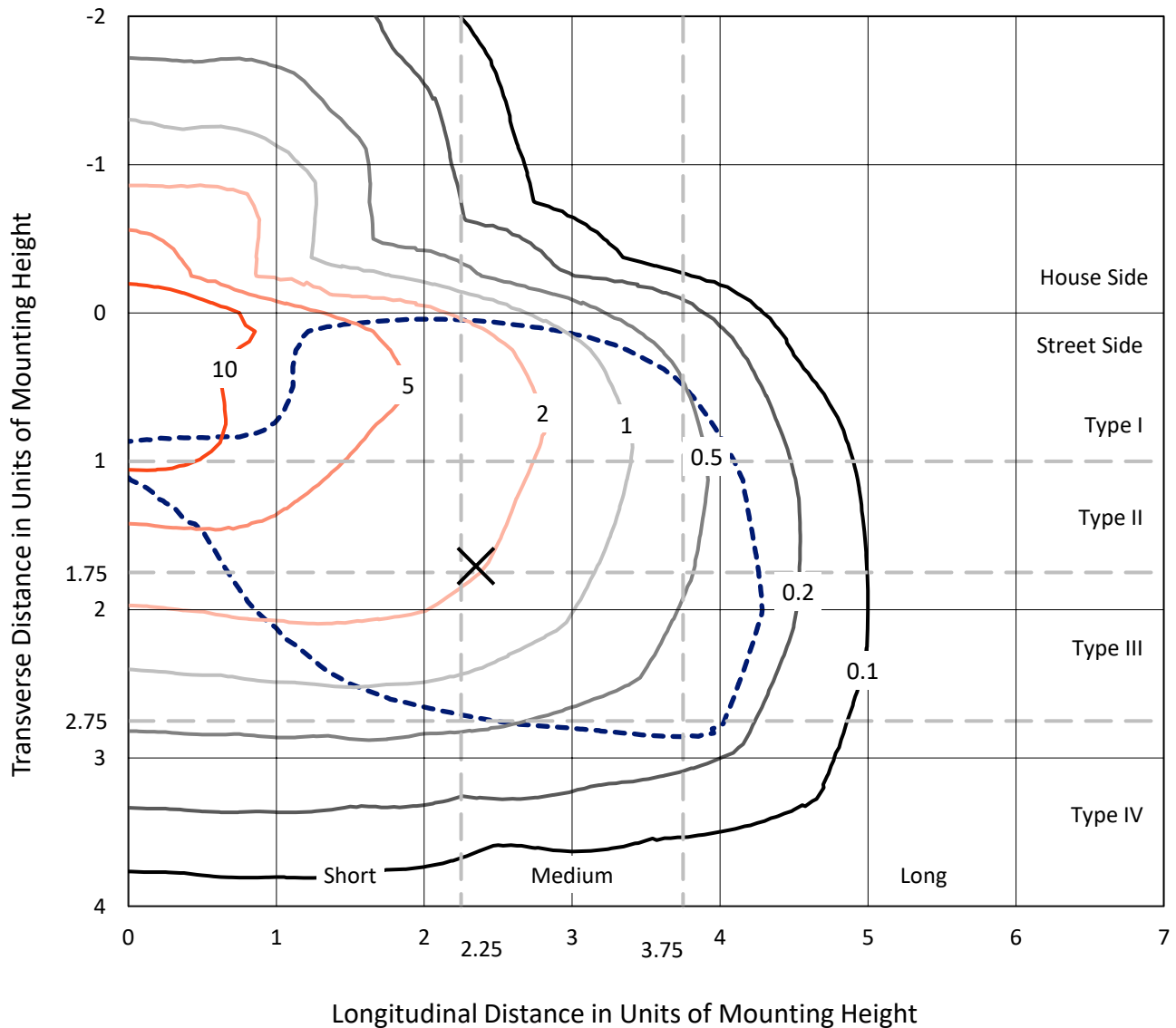


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

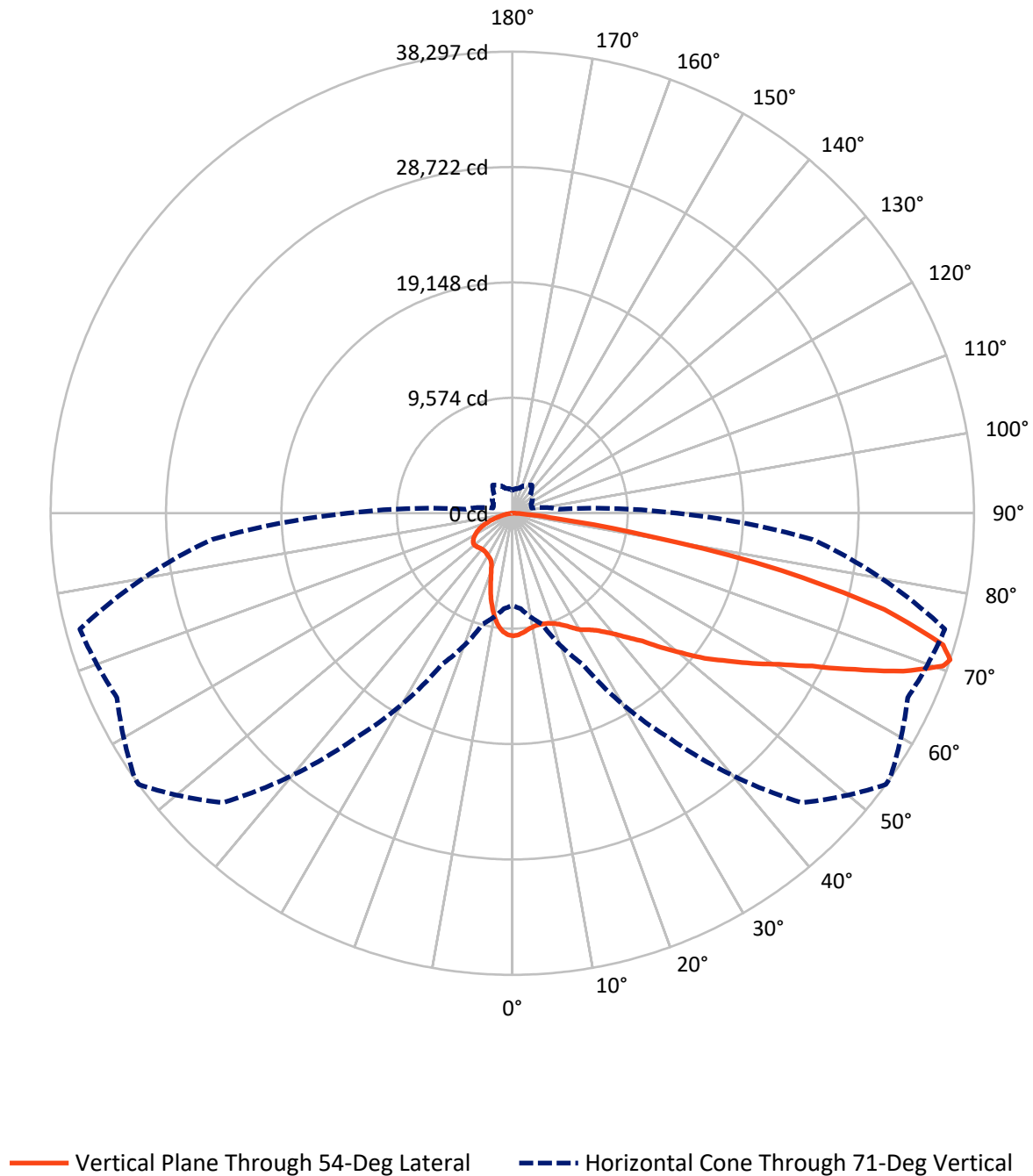


Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10296.2	0.0	10296.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	46732.8	0.0	46732.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	57029.0	0.0	57029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	906.7	1.6
10°-20°	2394.2	4.2
20°-30°	3986.5	7.0
30°-40°	5894.7	10.3
40°-50°	8302.9	14.6
50°-60°	11117.9	19.5
60°-70°	14013.3	24.6
70°-80°	9571.0	16.8
80°-90°	841.7	1.5
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°	57029.0	100.0
0°-180°	57029.0	100.0

Coefficient of Utilization



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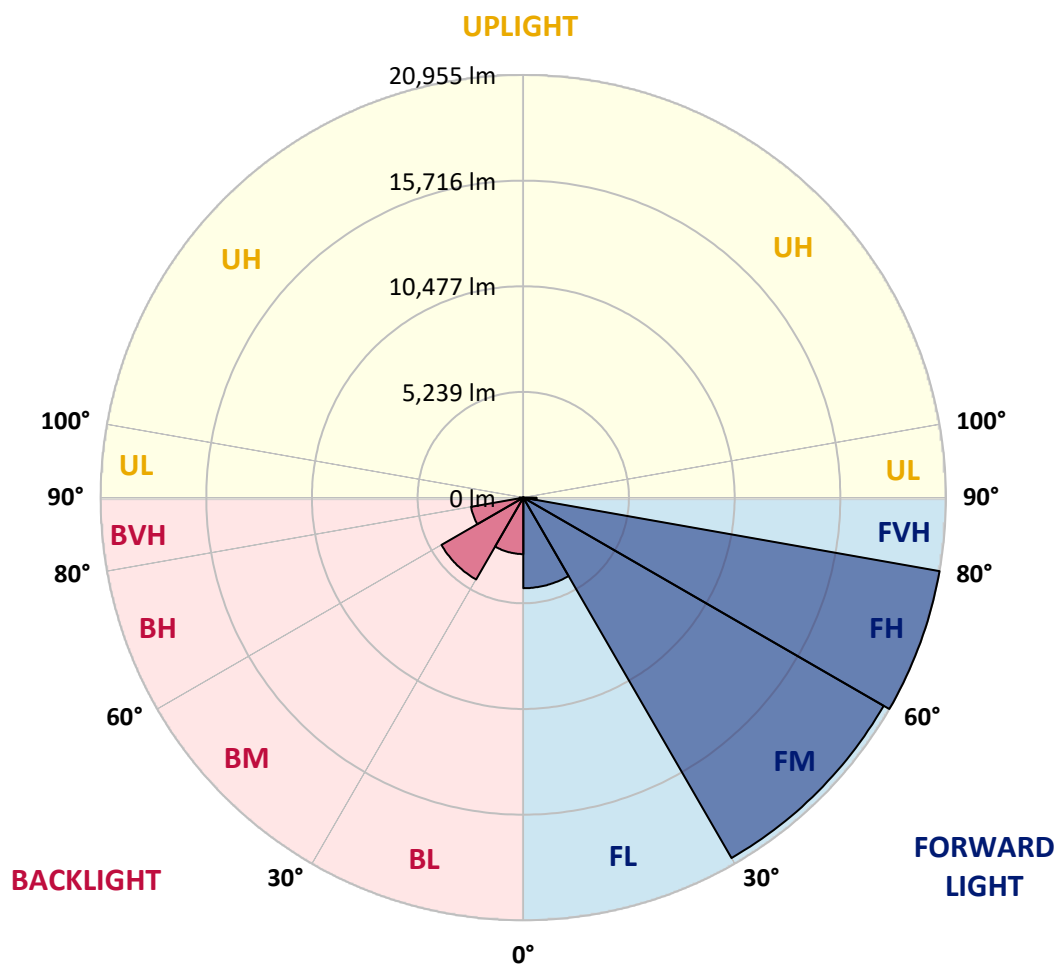
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4489.1	7.9			
FM	(30°-60°)	20631.0	36.2			
FH	(60°-80°)	20954.7	36.7			G5
FVH	(80°-90°)	657.9	1.2			G4/750
BL	(0°-30°)	2798.3	4.9	B4/5000		
BM	(30°-60°)	4684.5	8.2	B3/5000		
BH	(60°-80°)	2629.6	4.6	B4/5000		G4/5000
BVH	(80°-90°)	183.8	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10174.8	10174.8	10174.8	10174.8	10174.8	10174.8	10174.8	10174.8	10174.8	10174.8	10174.8
2.5°	9829.8	9876.0	9888.3	9919.1	9983.8	10036.2	10088.6	10082.4	10156.3	10187.1	10214.9
5°	9392.4	9404.7	9450.9	9512.5	9626.5	9771.3	9913.0	9916.1	10097.8	10242.6	10313.4
7.5°	9072.0	9112.1	9142.9	9207.5	9327.7	9484.8	9709.7	9728.1	10051.6	10338.1	10489.0
10°	8862.5	8908.7	8942.6	9022.7	9142.9	9318.4	9561.8	9595.7	10017.7	10489.0	10753.9
12.5°	8671.5	8717.8	8748.6	8853.3	9010.4	9226.0	9500.2	9540.2	10030.0	10664.6	11043.5
15°	8788.6	8825.6	8813.2	8844.1	8948.8	9195.2	9524.8	9564.9	10076.2	10834.0	11330.0
17.5°	9309.2	9340.0	9238.4	9121.3	9072.0	9253.8	9601.8	9645.0	10168.7	11009.6	11622.6
20°	10076.2	10159.4	9937.6	9675.8	9438.6	9463.2	9762.0	9808.2	10298.0	11185.2	11921.4
22.5°	11074.3	11135.9	10864.8	10433.6	9996.2	9771.3	10002.3	10030.0	10492.1	11413.2	12248.0
25°	12248.0	12284.9	11909.1	11354.6	10723.1	10298.0	10331.9	10381.2	10812.5	11671.9	12537.5
27.5°	13387.8	13504.8	13070.5	12392.8	11561.0	10852.5	10784.8	10815.6	11160.6	11816.7	12737.8
30°	14740.1	14730.8	14271.9	13486.3	12420.5	11456.3	11212.9	11206.8	11348.5	11887.6	12882.6
32.5°	15818.3	15944.6	15494.8	14638.4	13403.2	12081.6	11508.7	11496.3	11493.3	12010.8	13098.2
35°	17044.3	17062.8	16650.0	15787.4	14465.9	12867.2	11921.4	11859.8	11789.0	12275.7	13390.8
37.5°	18140.9	18227.2	17848.3	16881.0	15510.2	13683.5	12488.3	12448.2	12232.6	12734.7	13859.1
40°	18997.3	19062.0	18834.0	17913.0	16539.1	14564.5	13209.1	13135.2	12873.3	13486.3	14484.4
42.5°	19277.6	19410.1	19499.4	19046.6	17722.0	15608.8	14096.3	14003.9	13803.6	14626.1	15205.2
45°	19299.2	19508.7	19980.0	20001.5	18911.1	16859.5	15131.3	15066.6	15051.2	16086.3	16218.7
47.5°	19135.9	19348.5	20140.2	20568.3	19970.7	18122.5	16625.3	16523.7	16532.9	17891.4	17355.4
50°	18741.6	18994.2	19955.3	20931.8	20799.4	19434.7	18202.5	18168.7	18359.6	19952.3	18535.2
52.5°	17999.2	18304.2	19764.3	21159.8	21415.5	20565.3	19995.4	19899.9	20383.5	22188.7	19826.0
55°	15944.6	16403.5	19065.1	21286.1	22000.8	21646.5	21609.6	21782.1	22422.8	24628.4	21246.1
57.5°	14872.5	15217.6	17546.4	21307.7	22740.1	22903.4	23494.8	23537.9	24659.2	27219.1	22851.0
60°	14287.3	14592.2	16714.7	21166.0	23772.0	24459.0	25423.2	25577.2	26843.3	30025.4	24514.4
62.5°	13775.9	14037.7	16215.6	20676.2	24936.5	26766.3	27921.5	27995.4	29323.1	33124.4	26156.3
65°	12571.4	12870.2	15211.4	20186.4	25940.7	29649.6	31236.0	31149.8	31963.0	35798.2	27185.2
67.5°	10948.0	11326.9	13335.4	18495.2	26436.7	32800.9	34969.6	34861.8	34569.1	37551.0	27480.9
70°	8874.9	9078.2	10935.7	15571.8	24455.9	34455.1	37917.6	37803.6	36183.3	37782.1	26082.4
71°	7636.5	7953.8	9521.8	13831.3	22807.9	33949.9	38296.5	38265.7	36186.4	37144.4	25028.9
72.5°	5960.7	6154.8	7541.0	10717.0	19385.4	31078.9	37360.0	37477.1	35400.9	35373.1	22857.1
75°	3770.5	3856.8	4731.6	6308.8	10636.9	22010.0	31892.2	32209.5	31433.2	28953.4	16998.1
77.5°	2190.2	2301.1	2834.0	3718.1	4596.1	11946.1	22820.2	23165.2	21840.6	15941.5	6958.8
80°	1275.3	1398.5	1866.8	2159.4	2110.1	4432.8	11619.6	12207.9	9457.1	4026.2	1953.0
82.5°	708.5	791.7	1312.3	1315.4	1124.4	1447.8	3656.5	3826.0	2698.5	1623.4	797.8
85°	514.4	582.2	847.1	767.0	539.1	622.3	1272.2	1333.8	1090.5	683.9	258.8
87.5°	181.7	258.8	465.2	369.7	147.9	129.4	366.6	298.8	277.2	191.0	58.5
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°	10174.8	10174.8	10174.8	10174.8	10174.8	10174.8	10174.8	10174.8	10174.8	10174.8	10174.8
2.5°	10230.3	10236.4	10205.6	10150.2	10094.7	10023.9	9943.8	9882.2	9854.4	9851.4	9848.3
5°	10341.2	10356.6	10239.5	10067.0	9876.0	9641.9	9441.7	9213.7	9155.2	9062.8	9090.5
7.5°	10519.8	10510.6	10279.6	9913.0	9466.3	8970.4	8551.4	8308.0	8055.4	7984.6	7987.7
10°	10775.5	10717.0	10279.6	9598.8	8853.3	8117.1	7531.8	7162.1	6961.9	6795.5	6733.9
12.5°	11046.6	10898.7	10181.0	9158.3	8064.7	7162.1	6533.7	6034.7	5905.3	5769.7	5772.8
15°	11305.4	11058.9	9986.9	8539.1	7214.5	6142.5	5532.5	5233.7	5193.7	5209.1	5206.0
17.5°	11539.5	11172.9	9691.2	7849.1	6222.6	5267.6	4944.2	4965.7	5073.5	5150.6	5159.8
20°	11776.7	11240.7	9250.7	6924.9	5286.1	4737.8	4750.1	4919.5	5082.8	5187.5	5202.9
22.5°	12001.5	11271.5	8733.2	6031.6	4608.4	4512.9	4694.6	4876.4	5036.6	5138.2	5153.6
25°	12149.4	11200.6	8000.0	5098.2	4275.7	4432.8	4623.8	4777.8	4913.4	5018.1	5042.7
27.5°	12189.5	10972.7	7091.3	4343.5	4121.7	4355.8	4531.4	4645.4	4750.1	4848.7	4867.2
30°	12167.9	10636.9	6093.2	3899.9	4032.3	4266.5	4402.0	4485.2	4611.5	4688.5	4703.9
32.5°	12134.0	10245.7	5052.0	3662.7	3958.4	4183.3	4263.4	4337.3	4334.2	4303.4	4325.0
35°	12146.3	9777.4	4207.9	3521.0	3893.7	4121.7	4189.4	4097.0	3832.1	3819.8	3807.5
37.5°	12211.0	9315.4	3594.9	3422.4	3859.8	4112.4	4149.4	3724.3	3490.2	3382.4	3354.6
40°	12377.4	8776.3	3191.4	3348.5	3856.8	4183.3	3967.7	3536.4	3086.6	2877.2	2861.8
42.5°	12599.2	8246.4	2944.9	3302.3	3893.7	4291.1	3893.7	3271.5	2781.7	2658.5	2640.0
45°	12928.8	7639.6	2809.4	3280.7	3949.2	4331.2	3869.1	3077.4	2658.5	2559.9	2559.9
47.5°	13301.5	7060.5	2735.5	3265.3	4020.0	4303.4	3650.4	3015.8	2599.9	2612.2	2670.8
50°	13671.2	6558.3	2680.0	3231.4	4081.6	4288.0	3561.0	3012.7	2615.3	2772.4	2877.2
52.5°	14099.3	6204.1	2612.2	3176.0	4081.6	4189.4	3533.3	3074.3	2658.5	2704.7	2750.9
55°	14616.9	6093.2	2526.0	3055.8	4007.7	3943.0	3517.9	3163.7	2689.3	2581.4	2599.9
57.5°	15300.7	6271.9	2442.8	2904.9	3838.3	3687.3	3511.7	3188.3	2618.4	2529.1	2510.6
60°	16095.5	6626.1	2418.2	2750.9	3607.2	3468.6	3474.8	3117.4	2519.8	2427.4	2442.8
62.5°	16653.1	6838.7	2402.8	2633.8	3354.6	3228.3	3385.4	3031.2	2476.7	2396.6	2412.0
65°	16653.1	6579.9	2261.1	2455.1	3028.1	2938.8	3277.6	2923.4	2421.3	2328.8	2313.4
67.5°	16021.6	5825.2	2045.4	2187.1	2667.7	2609.2	3126.7	2794.0	2338.1	2267.2	2230.3
70°	14376.6	4417.4	1774.4	1872.9	2211.8	2264.2	2932.6	2618.4	2199.5	2113.2	2057.8
71°	13652.7	3847.5	1660.4	1712.7	2036.2	2113.2	2840.2	2544.5	2137.9	2014.6	1916.1
72.5°	12257.2	3240.7	1487.9	1509.4	1740.5	1879.1	2646.1	2402.8	2020.8	1845.2	1734.3
75°	9312.3	2365.8	1198.3	1186.0	1287.6	1491.0	2239.5	2140.9	1771.3	1534.1	1469.4
77.5°	4023.1	1287.6	896.4	905.7	874.9	1130.5	1762.0	1839.0	1518.7	1247.6	1189.1
80°	1219.9	742.4	613.0	625.3	585.3	757.8	1241.4	1441.7	1219.9	970.4	890.3
82.5°	625.3	443.6	418.9	412.8	372.7	428.2	751.6	985.8	871.8	606.9	536.0
85°	271.1	237.2	206.4	200.2	175.6	154.0	268.0	492.9	462.1	338.9	323.5
87.5°	67.8	61.6	40.0	37.0	21.6	3.1	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)