

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: P458504

Luminaire Tested: **GALN-SA9D-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
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-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56795 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
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

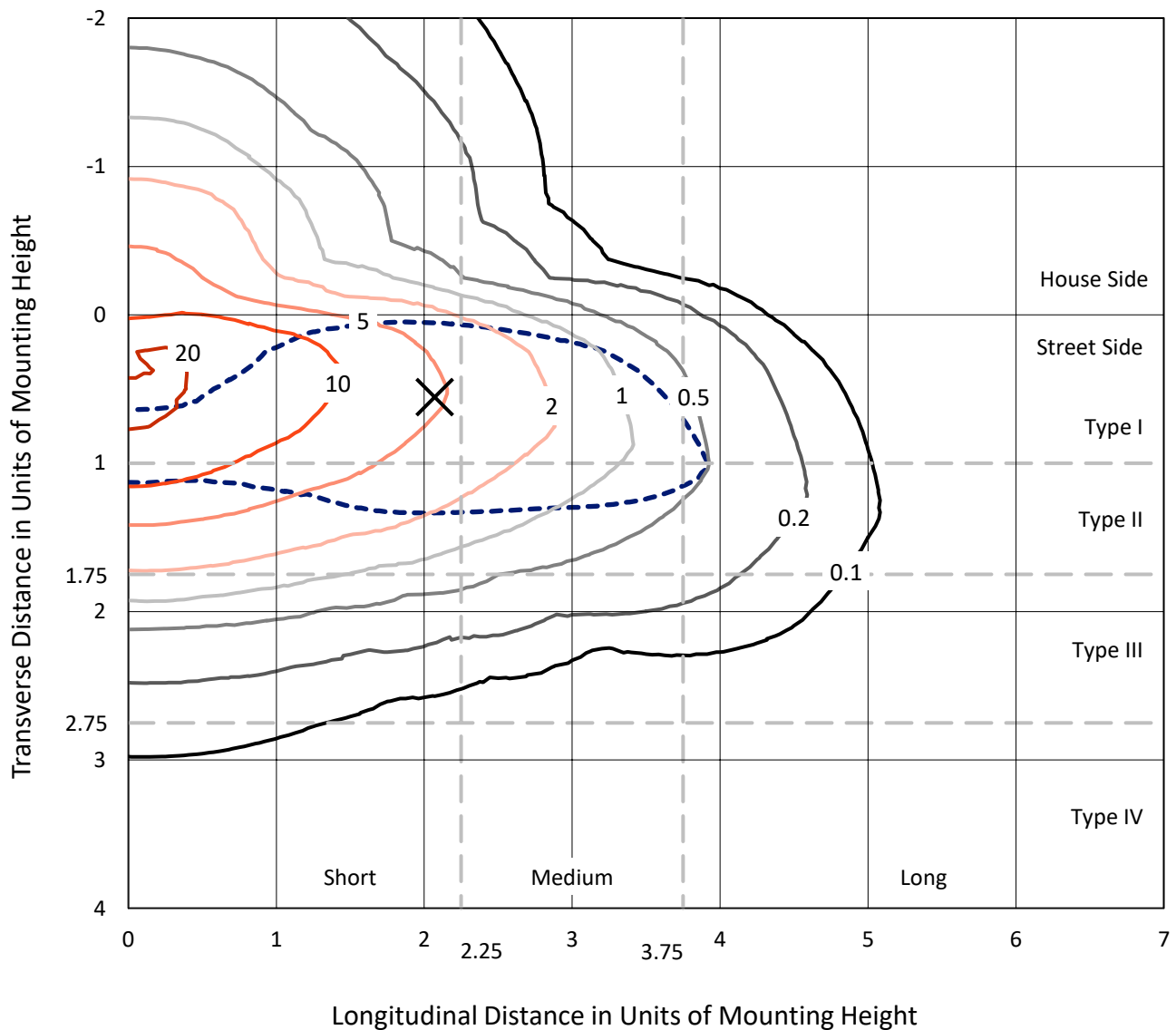


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

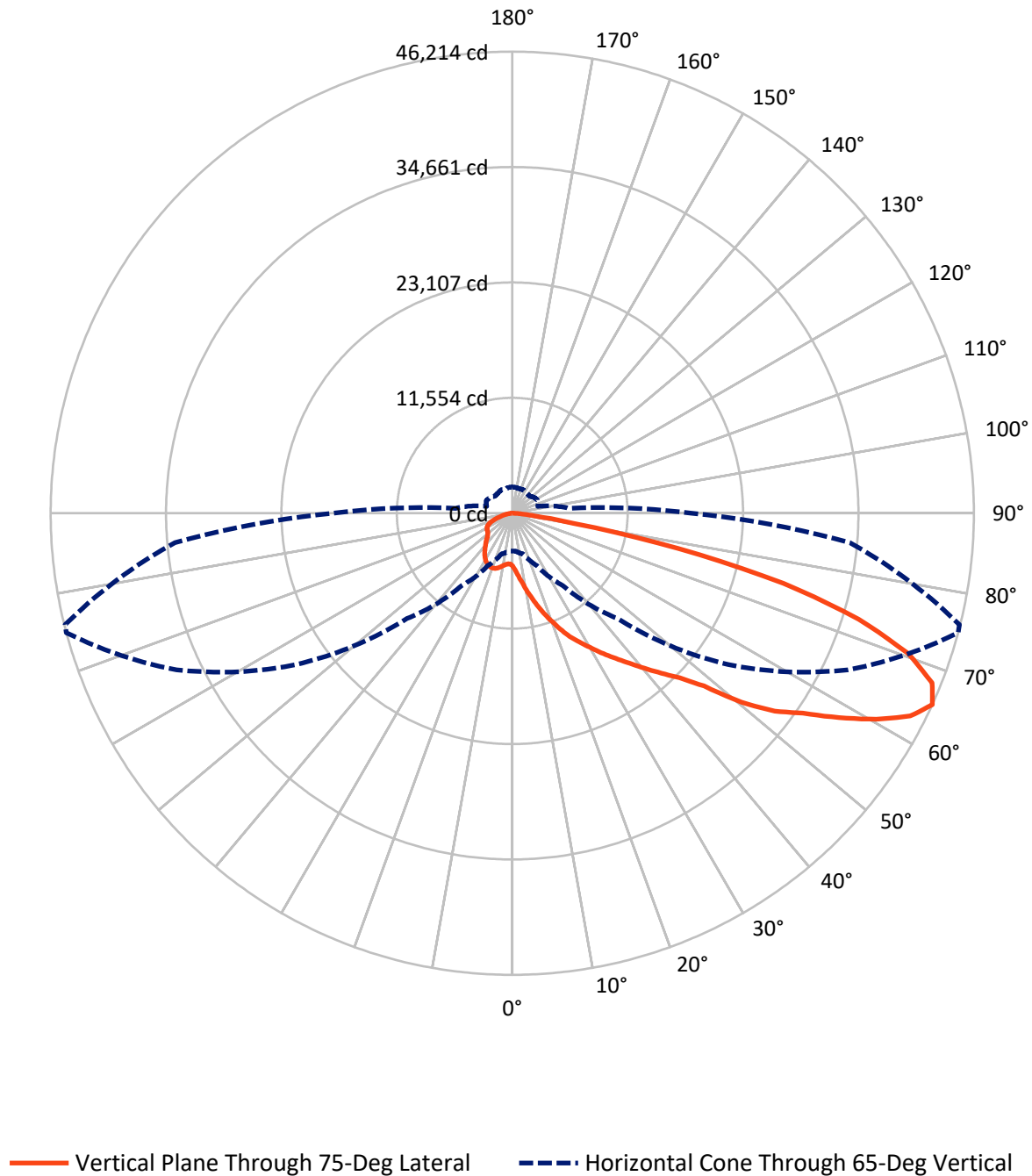


Based on 25 foot mounting height. Maximum calculated value = 21.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9548.0	0.0	9548.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	47247.0	0.0	47247.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	56795.0	0.0	56795.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.1	1.1
10°-20°	2511.2	4.4
20°-30°	4850.9	8.5
30°-40°	7879.3	13.9
40°-50°	10838.7	19.1
50°-60°	12796.8	22.5
60°-70°	11212.1	19.7
70°-80°	5352.7	9.4
80°-90°	712.3	1.3
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°	56795.0	100.0
0°-180°	56795.0	100.0

Coefficient of Utilization



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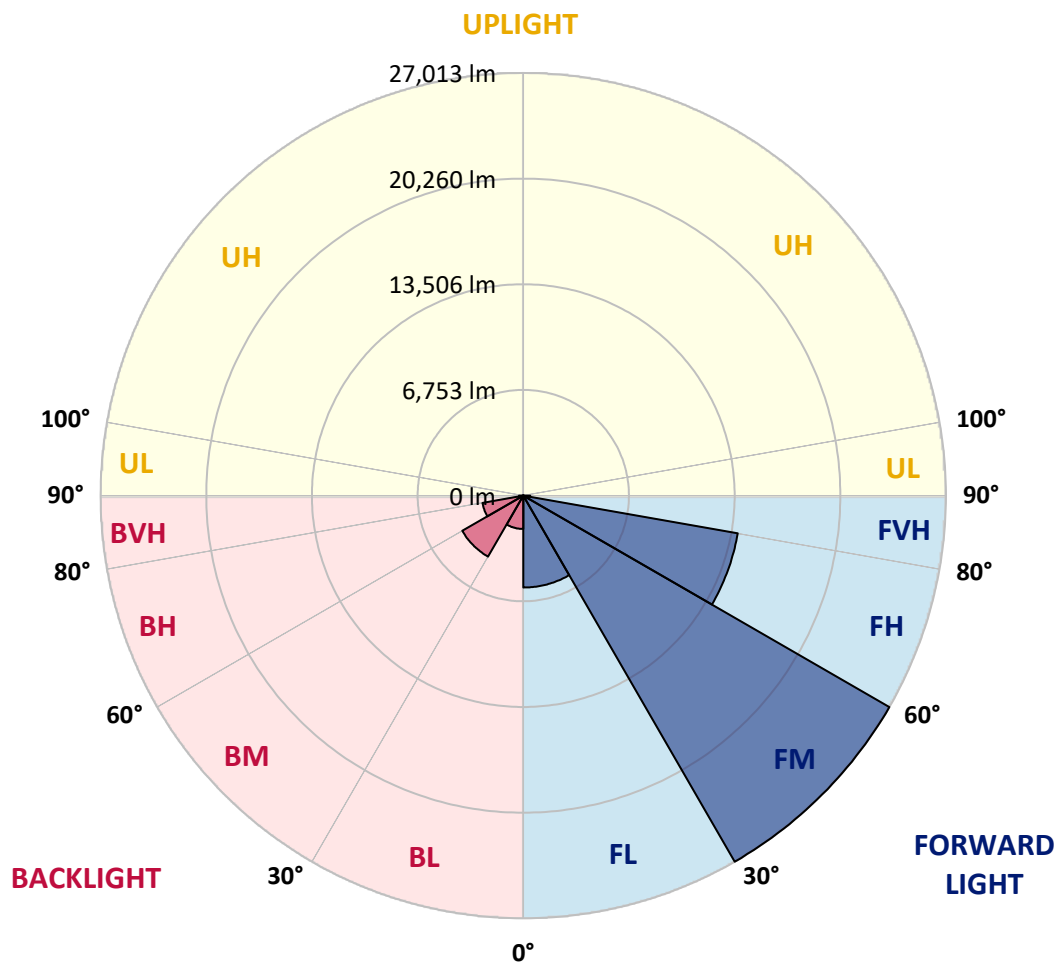
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5871.7	10.3			
FM	(30°-60°)	27012.9	47.6			
FH	(60°-80°)	13917.3	24.5			G5
FVH	(80°-90°)	445.1	0.8			G3/500
BL	(0°-30°)	2131.6	3.8	B3/2500		
BM	(30°-60°)	4501.8	7.9	B3/5000		
BH	(60°-80°)	2647.5	4.7	B4/5000		G4/5000
BVH	(80°-90°)	267.1	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5277.0	5277.0	5277.0	5277.0	5277.0	5277.0	5277.0	5277.0	5277.0	5277.0	5277.0
2.5°	7011.3	6965.1	6915.8	6780.3	6635.5	6472.2	6238.1	6013.2	5714.4	5705.2	5483.4
5°	8955.1	8924.3	8705.6	8579.3	8243.5	7796.9	7418.0	6829.6	6284.3	6219.6	5788.3
7.5°	10741.9	10621.7	10538.5	10310.6	9977.9	9404.9	8671.7	7877.0	6965.1	6878.9	6164.2
10°	12088.1	12075.7	12032.6	11835.5	11585.9	11016.0	10202.8	9063.0	7827.7	7658.2	6620.1
12.5°	13095.4	13104.6	13098.5	13095.4	12916.7	12433.1	11552.0	10350.6	8699.5	8579.3	7146.9
15°	13757.7	13850.1	13887.1	14041.1	14056.5	13733.1	12975.3	11595.2	9682.2	9503.5	7713.7
17.5°	14195.1	14241.4	14413.9	14675.7	14888.3	14829.7	14155.1	12747.3	10686.4	10387.6	8302.1
20°	14614.1	14694.2	14826.7	15184.0	15559.8	15732.3	15257.9	13927.1	11681.4	11490.4	8952.1
22.5°	15485.9	15599.9	15646.1	15827.8	16148.2	16453.2	16237.6	15057.7	12771.9	12513.2	9642.1
25°	16961.5	17081.6	16952.2	16909.1	17013.8	17164.8	17118.6	16123.6	13800.8	13431.2	10295.2
27.5°	18883.7	18899.1	18646.5	18406.3	18147.5	18070.5	17928.8	17069.3	14694.2	14386.1	10951.3
30°	20947.7	20873.8	20454.8	20020.5	19583.0	19151.7	18745.1	17981.1	15689.2	15335.0	11595.2
32.5°	22863.8	22823.8	22358.6	21684.0	20944.6	20538.0	19715.5	18902.2	16755.1	16413.1	12257.5
35°	24299.3	24357.9	23846.5	23110.2	22303.1	21942.7	20904.6	19869.5	17857.9	17485.2	12978.3
37.5°	25319.0	25288.2	24835.4	24197.7	23489.2	23174.9	22293.9	20926.1	19043.9	18686.6	13767.0
40°	25682.5	25664.0	25328.2	24863.1	24413.3	24302.4	23747.9	22065.9	20402.4	19983.5	14715.8
42.5°	25451.5	25491.5	25269.7	25143.4	25060.2	25140.3	25192.7	23560.0	21884.2	21499.1	15744.7
45°	24742.9	24721.4	24690.6	24897.0	25365.2	25892.0	26622.1	24970.9	23495.3	23187.3	17124.7
47.5°	23476.8	23630.9	23707.9	24277.8	25300.5	26548.1	28267.1	26862.3	25833.4	25565.4	19228.8
50°	21705.5	21828.7	22284.7	23298.2	24823.0	26794.6	29875.1	29955.2	29733.4	29231.3	21514.5
52.5°	18939.2	19130.2	20069.7	21927.3	23843.4	26692.9	30848.6	32607.6	32900.2	32524.4	23766.4
55°	15843.2	16111.2	17103.2	19539.9	22494.1	26138.4	31520.1	34144.8	35312.3	34964.2	25935.1
57.5°	12812.0	13095.4	14115.1	16474.8	20140.6	24912.4	31960.6	35857.5	38596.1	38143.3	28633.7
60°	9602.1	9897.8	10772.7	13203.2	16789.0	22515.7	31661.8	37342.4	41876.9	41682.8	31335.3
62.5°	6195.0	6521.5	7282.4	9294.0	12904.4	19241.1	30063.0	38161.8	44717.2	44483.1	33306.8
65°	3773.7	3810.6	4229.6	5769.9	8831.9	14897.5	26406.4	37074.4	46214.3	46143.5	33907.6
67.5°	2439.8	2498.3	2689.3	3456.4	5295.5	10347.5	21114.1	33485.5	45339.5	45314.8	32666.1
70°	2060.9	2079.4	2165.6	2332.0	3077.5	6275.1	14826.7	27764.9	42015.5	42015.5	29681.0
72.5°	1842.2	1866.8	1897.6	1950.0	2196.4	3554.9	8847.3	21613.1	36276.5	36516.8	25263.5
75°	1672.7	1666.6	1685.1	1694.3	1873.0	2322.7	4574.6	15984.9	28063.8	27583.2	18295.4
77.5°	1432.5	1441.7	1432.5	1472.5	1654.3	1768.2	2322.7	10726.5	17007.7	16385.4	9183.1
80°	1176.8	1192.2	1207.6	1232.2	1414.0	1343.1	1395.5	4888.8	6290.5	6158.0	2837.2
82.5°	884.1	905.7	930.3	988.9	1112.1	887.2	881.0	2088.6	2270.4	2079.4	1044.3
85°	357.3	422.0	637.7	696.2	699.3	486.7	542.2	871.8	927.2	905.7	409.7
87.5°	83.2	98.6	206.4	311.1	286.5	181.8	200.2	283.4	323.5	298.8	138.6
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°	5277.0	5277.0	5277.0	5277.0	5277.0	5277.0	5277.0	5277.0	5277.0	5277.0	5277.0
2.5°	5381.7	5273.9	5089.1	4947.4	4845.7	4756.4	4700.9	4667.0	4654.7	4651.6	4654.7
5°	5563.5	5372.5	5079.8	4895.0	4793.3	4734.8	4700.9	4697.8	4700.9	4704.0	4694.7
7.5°	5813.0	5538.8	5156.8	4984.3	4907.3	4864.2	4848.8	4842.6	4845.7	4842.6	4842.6
10°	6145.7	5769.9	5307.8	5129.1	5064.4	5015.1	4990.5	4975.1	4962.8	4950.4	4944.3
12.5°	6512.3	6025.5	5471.0	5298.5	5206.1	5129.1	5073.7	5033.6	5005.9	4978.2	4972.0
15°	6922.0	6296.6	5652.8	5412.5	5280.1	5166.1	5070.6	5005.9	4956.6	4916.5	4913.5
17.5°	7313.2	6552.3	5776.0	5464.9	5270.8	5110.6	4984.3	4895.0	4833.4	4781.0	4774.8
20°	7732.2	6795.7	5831.5	5431.0	5178.4	4984.3	4818.0	4710.2	4639.3	4580.8	4571.5
22.5°	8154.2	7002.1	5825.3	5323.2	5018.2	4790.2	4614.7	4500.7	4417.5	4359.0	4337.4
25°	8557.8	7168.4	5748.3	5150.7	4796.4	4559.2	4380.5	4275.8	4201.9	4131.0	4131.0
27.5°	8921.3	7267.0	5603.5	4941.2	4568.4	4318.9	4177.2	4081.7	4013.9	3967.7	3940.0
30°	9278.6	7313.2	5406.4	4676.3	4328.2	4115.6	4001.6	3946.2	3884.6	3832.2	3826.0
32.5°	9599.0	7304.0	5159.9	4417.5	4100.2	3949.3	3903.0	3859.9	3795.2	3721.3	3702.8
35°	9910.1	7242.4	4867.3	4134.1	3909.2	3850.7	3863.0	3801.4	3684.3	3591.9	3576.5
37.5°	10249.0	7131.5	4546.9	3903.0	3749.0	3804.5	3835.3	3699.7	3508.7	3364.0	3330.1
40°	10640.2	7005.2	4214.2	3672.0	3622.7	3761.3	3761.3	3511.8	3250.0	3160.6	3136.0
42.5°	11099.2	6900.4	3936.9	3477.9	3518.0	3656.6	3641.2	3262.3	3154.5	3108.3	3095.9
45°	11826.2	6863.5	3650.4	3308.5	3431.7	3533.4	3407.1	3176.0	3114.4	3077.5	3065.1
47.5°	12975.3	6906.6	3397.8	3182.2	3333.1	3410.2	3145.2	3117.5	3074.4	3022.0	3015.9
50°	14041.1	6866.5	3219.2	3111.4	3246.9	3262.3	3037.4	3046.7	3022.0	2963.5	2951.2
52.5°	14912.9	6740.2	3105.2	3074.4	3173.0	3003.5	2935.8	2969.6	2960.4	2886.5	2874.1
55°	15871.0	6663.2	3049.7	3074.4	3123.7	2778.7	2840.3	2889.6	2877.2	2824.9	2821.8
57.5°	17032.3	6678.6	3009.7	3083.6	3074.4	2664.7	2744.8	2803.3	2800.2	2784.8	2784.8
60°	18221.4	6684.8	2948.1	3080.5	3015.9	2575.3	2646.2	2729.4	2735.5	2744.8	2744.8
62.5°	18615.7	6416.8	2827.9	3025.1	2886.5	2489.1	2553.8	2667.8	2661.6	2686.2	2689.3
65°	17879.5	5674.4	2649.3	2898.8	2720.1	2427.5	2482.9	2587.7	2553.8	2618.5	2630.8
67.5°	16274.5	4694.7	2372.0	2670.8	2535.3	2362.8	2436.7	2476.8	2415.1	2541.4	2544.5
70°	14065.8	3665.8	2020.8	2347.4	2325.8	2295.0	2399.7	2338.1	2251.9	2405.9	2375.1
72.5°	11761.5	2800.2	1614.2	1919.2	2045.5	2193.3	2335.1	2159.5	2039.3	2085.5	2030.1
75°	8835.0	2070.1	1296.9	1503.3	1703.5	2048.6	2276.5	1943.8	1759.0	1715.9	1703.5
77.5°	4503.8	1352.4	970.4	1124.4	1278.4	1851.4	2196.4	1691.2	1457.1	1389.3	1358.5
80°	1608.0	841.0	683.9	776.3	862.6	1592.6	1919.2	1398.6	1130.6	1118.2	1130.6
82.5°	745.5	542.2	459.0	508.3	511.4	1062.8	1463.3	1044.3	859.5	1306.2	1102.8
85°	320.4	271.1	258.8	252.6	234.1	474.4	822.5	560.7	874.9	391.2	360.4
87.5°	95.5	107.8	95.5	70.9	52.4	52.4	83.2	30.8	21.6	15.4	15.4
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)