

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: P532560

Luminaire Tested: **GALN-SA7D-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36505 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 433
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

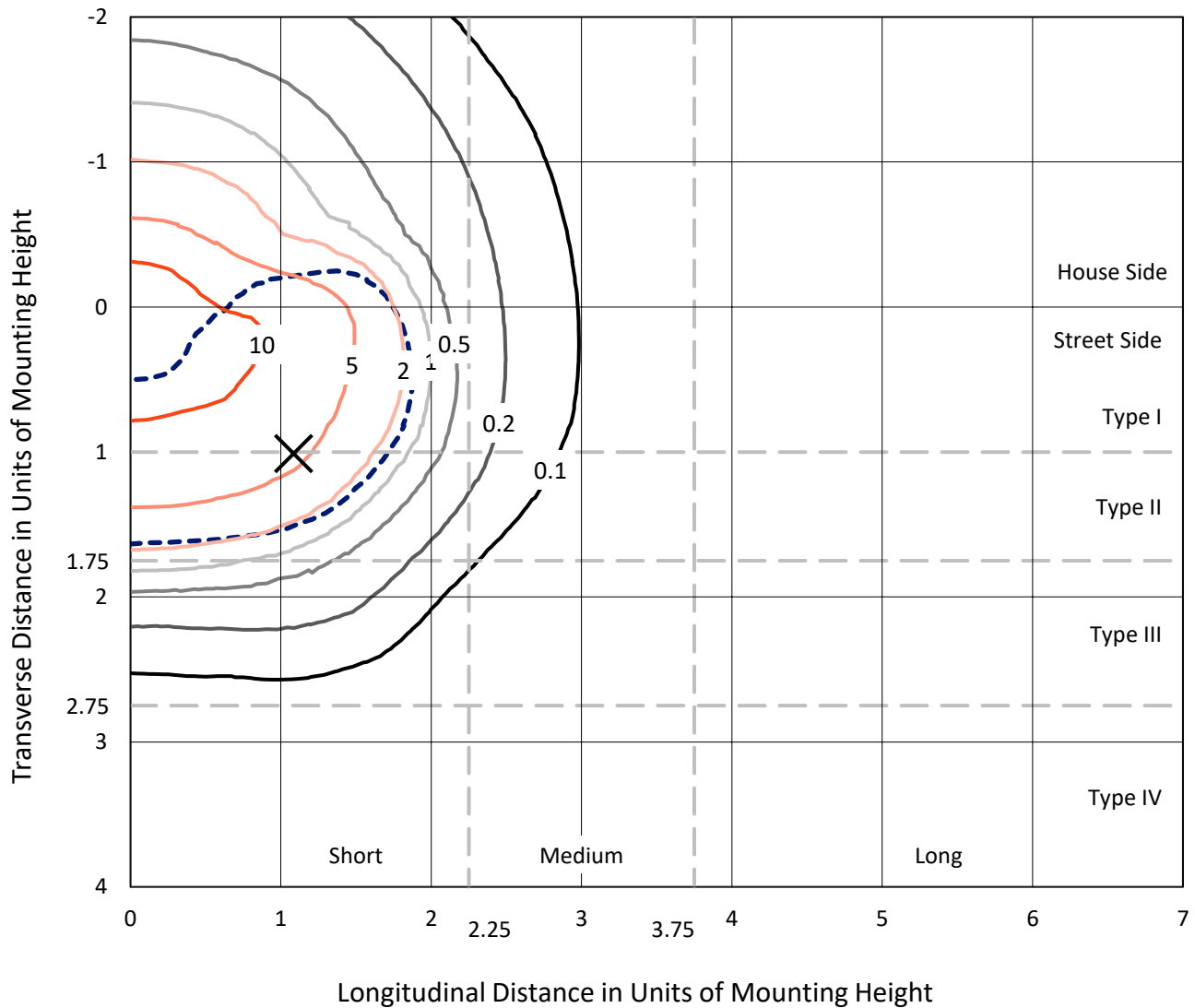


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

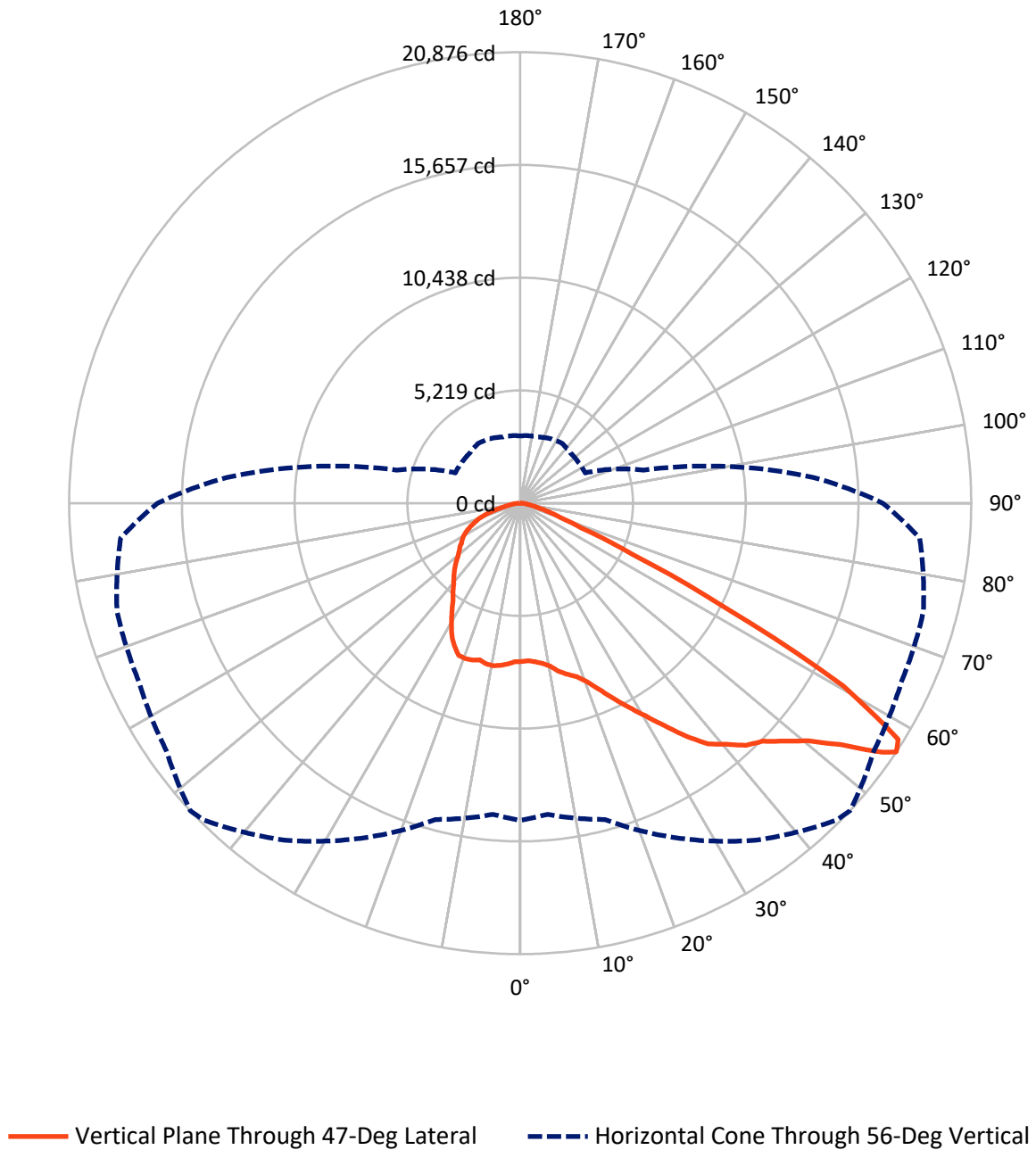


Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11568.0	0.0	11568.0
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	24937.0	0.0	24937.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	36505.0	0.0	36505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.5	2.0
10°-20°	2253.8	6.2
20°-30°	3984.2	10.9
30°-40°	5984.1	16.4
40°-50°	8212.7	22.5
50°-60°	9784.3	26.8
60°-70°	4187.1	11.5
70°-80°	1184.9	3.2
80°-90°	199.4	0.5
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°	36505.0	100.0
0°-180°	36505.0	100.0

Coefficient of Utilization



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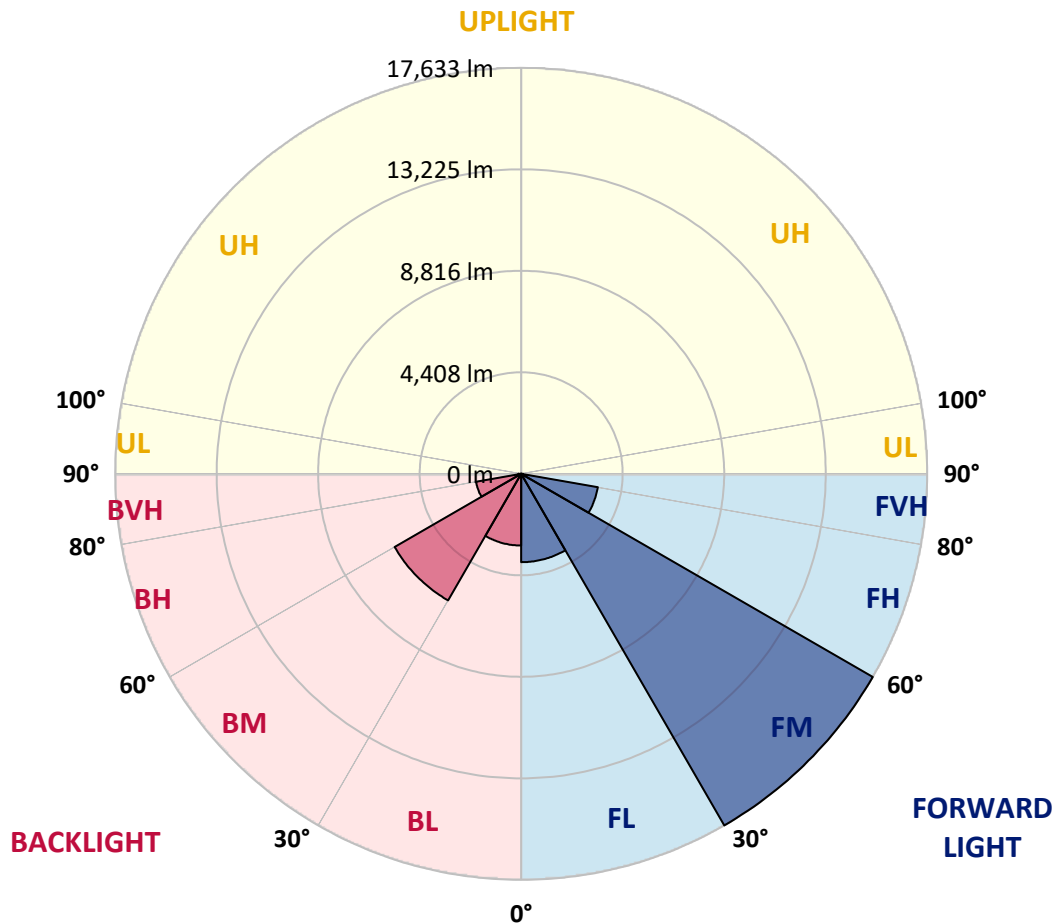
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3837.9	10.5			
FM	(30°-60°)	17632.8	48.3			
FH	(60°-80°)	3381.7	9.3			G2/5000
FVH	(80°-90°)	84.6	0.2			G1/100
BL	(0°-30°)	3114.6	8.5	B4/5000		
BM	(30°-60°)	6348.3	17.4	B4/8500		
BH	(60°-80°)	1990.3	5.5	B3/2500		G3/2500
BVH	(80°-90°)	114.8	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7
2.5°	7304.8	7290.8	7281.5	7356.0	7328.1	7332.7	7304.8	7332.7	7351.4	7309.5	7370.0
5°	7290.8	7332.7	7295.5	7318.8	7379.3	7360.7	7379.3	7435.2	7421.2	7407.2	7388.6
7.5°	7421.2	7425.9	7453.8	7463.1	7481.7	7463.1	7491.0	7542.3	7528.3	7449.1	7458.4
10°	7607.4	7616.7	7621.4	7672.6	7705.2	7709.9	7677.3	7630.7	7626.1	7733.1	7658.6
12.5°	7821.6	7798.3	7854.2	7872.8	7910.1	7952.0	7993.9	7896.1	7956.6	7961.3	7872.8
15°	8133.5	8156.8	8091.6	8091.6	8105.6	8110.2	8226.6	8180.1	8170.8	8119.6	8156.8
17.5°	8599.1	8440.8	8436.1	8371.0	8361.7	8398.9	8440.8	8478.1	8603.8	8501.3	8301.1
20°	8939.0	8976.2	8841.2	8762.0	8776.0	8859.8	8817.9	8985.5	9074.0	8906.4	8710.8
22.5°	9539.6	9413.8	9446.4	9269.5	9283.5	9371.9	9367.3	9539.6	9590.8	9325.4	9041.4
25°	9944.6	9912.0	9939.9	9800.3	9818.9	9888.7	10000.5	10284.5	10200.7	9907.4	9250.9
27.5°	10535.9	10470.7	10447.4	10396.2	10377.6	10563.8	10694.2	10996.8	10936.3	10507.9	9623.4
30°	11141.1	11099.2	11122.5	10913.0	10987.5	11383.2	11420.5	11834.8	11806.9	11052.7	10037.7
32.5°	11560.1	11583.4	11625.3	11508.9	11839.5	12156.1	12281.8	12752.0	12775.3	11988.5	10838.5
35°	12235.2	12156.1	12179.3	12314.4	12468.0	13045.3	13250.2	13562.1	13757.6	12970.8	11606.7
37.5°	12658.9	12742.7	12644.9	12859.1	13259.5	13953.2	14139.4	14460.6	14665.5	13939.2	12654.2
40°	13320.0	13185.0	13254.8	13408.4	13818.2	14721.4	14670.1	15000.7	15065.9	14763.3	13631.9
42.5°	14032.3	13967.1	13869.4	14218.5	14563.1	15219.5	15321.9	15168.3	15498.9	15568.7	15028.6
45°	14884.3	14963.5	14977.4	14986.7	15289.4	15862.0	15722.3	15587.3	15969.1	16476.6	15894.6
47.5°	15675.8	15424.4	15605.9	15857.4	16285.7	16290.3	16453.3	16132.0	16537.1	16988.7	16676.8
50°	15941.2	15820.1	16062.2	16537.1	17198.2	17268.0	17286.7	16830.4	17039.9	17398.4	16946.8
52.5°	15838.7	15796.8	16416.0	17151.6	18120.0	18473.9	18567.0	18003.6	18120.0	17957.1	17542.7
55°	15349.9	15475.6	16099.4	17598.6	19083.8	20177.9	20354.8	19642.4	18902.2	19027.9	18571.6
56°	14679.5	14460.6	15159.0	17091.1	19041.9	20731.9	20876.2	19987.0	19484.2	19321.2	18562.3
57.5°	12454.0	12170.0	13087.2	15377.8	17985.0	20522.4	20629.5	20131.3	19386.4	19055.8	17207.5
60°	7290.8	7430.5	8594.4	10605.7	13874.0	16825.7	17184.2	17547.4	17049.2	15568.7	12807.9
62.5°	3519.7	3431.3	4264.6	6080.4	8454.8	10740.7	10633.6	11653.2	12211.9	11062.0	8087.0
65°	1843.7	1834.4	2327.9	3319.5	4646.4	5642.7	5740.5	6289.9	7058.1	5698.6	4106.3
67.5°	1354.8	1392.1	1638.8	2332.5	2989.0	3049.5	3035.5	3310.2	3384.7	2863.3	2523.4
70°	1061.5	1080.1	1261.7	1773.8	2225.4	1992.6	1950.7	1983.3	2202.2	2295.3	2183.5
72.5°	768.2	786.8	940.5	1196.5	1392.1	1359.5	1387.4	1569.0	1839.0	1936.8	1820.4
75°	512.1	526.1	609.9	730.9	824.1	889.2	940.5	1150.0	1401.4	1457.2	1401.4
77.5°	353.8	367.8	423.7	516.8	526.1	568.0	586.6	684.4	838.0	907.9	870.6
80°	200.2	200.2	228.1	265.4	325.9	381.8	391.1	470.2	540.1	586.6	595.9
82.5°	93.1	97.8	121.0	162.9	214.2	265.4	274.7	325.9	377.1	423.7	437.6
85°	46.6	51.2	69.8	97.8	130.4	158.3	153.6	158.3	167.6	158.3	162.9
87.5°	14.0	14.0	18.6	23.3	18.6	23.3	23.3	27.9	32.6	37.2	41.9
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°	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7
2.5°	7374.6	7388.6	7295.5	7384.0	7351.4	7346.7	7411.9	7402.6	7425.9	7416.5	7360.7
5°	7379.3	7346.7	7444.5	7356.0	7397.9	7486.4	7425.9	7565.5	7495.7	7542.3	7439.8
7.5°	7523.6	7532.9	7514.3	7551.6	7532.9	7574.8	7542.3	7574.8	7519.0	7523.6	7616.7
10°	7649.3	7621.4	7654.0	7607.4	7640.0	7626.1	7551.6	7528.3	7546.9	7523.6	7584.2
12.5°	7882.1	7830.9	7807.6	7751.8	7714.5	7574.8	7458.4	7393.3	7481.7	7495.7	7467.8
15°	8119.6	8124.2	8017.1	7891.4	7658.6	7449.1	7477.1	7500.4	7500.4	7537.6	7467.8
17.5°	8268.5	8268.5	8170.8	7919.4	7681.9	7560.9	7532.9	7458.4	7393.3	7384.0	7379.3
20°	8529.3	8450.1	8226.6	7914.7	7672.6	7616.7	7407.2	7230.3	7095.3	7048.7	7044.1
22.5°	8827.2	8627.0	8315.1	7924.0	7658.6	7579.5	7188.4	6923.0	6680.9	6578.5	6592.5
25°	9101.9	8780.7	8366.3	7882.1	7607.4	7225.7	6788.0	6420.2	6168.8	6085.0	6043.1
27.5°	9292.8	8943.6	8366.3	7919.4	7416.5	6829.9	6383.0	5912.8	5693.9	5638.1	5647.4
30°	9548.9	9148.5	8510.6	7840.2	7034.8	6317.8	5782.4	5475.1	5344.8	5298.2	5330.8
32.5°	10149.5	9683.9	8710.8	7649.3	6583.2	5805.7	5372.7	5200.4	5009.5	4916.4	4883.8
35°	10801.3	10191.4	8906.4	7328.1	6075.7	5340.1	5070.1	4911.8	4683.6	4581.2	4599.8
37.5°	11723.1	10843.2	8920.3	6797.3	5526.3	5079.4	4832.6	4585.9	4399.6	4241.4	4194.8
40°	12966.2	11732.4	8887.8	6238.7	5084.0	4772.1	4590.5	4283.3	4073.7	3962.0	3985.3
42.5°	14060.2	12775.3	8752.7	5605.5	4683.6	4562.6	4357.7	4055.1	3850.3	3733.9	3724.6
45°	14982.1	13543.5	8496.7	5065.4	4348.4	4329.8	4092.4	3859.6	3696.6	3589.6	3636.1
47.5°	15834.1	14162.7	8110.2	4525.4	4041.2	4078.4	3850.3	3705.9	3603.5	3505.8	3501.1
50°	16141.4	14153.4	7770.4	4078.4	3794.4	3775.8	3766.5	3612.8	3505.8	3421.9	3459.2
52.5°	16653.5	14311.7	7402.6	3771.1	3570.9	3575.6	3608.2	3496.4	3375.4	3324.2	3370.7
55°	17389.1	14334.9	6592.5	3412.6	3384.7	3417.3	3417.3	3342.8	3240.4	3198.5	3175.2
56°	16788.5	13641.2	5912.8	3319.5	3291.6	3291.6	3380.0	3296.2	3170.5	3137.9	3110.0
57.5°	15484.9	11951.2	4949.0	3207.8	3165.9	3231.1	3277.6	3189.2	3072.8	3026.2	3054.1
60°	10680.2	8087.0	3719.9	2965.7	2965.7	3072.8	3110.0	2979.7	2928.4	2923.8	2886.5
62.5°	6234.0	4711.6	2909.8	2746.9	2756.2	2844.6	2872.6	2798.1	2732.9	2812.0	2849.3
65°	3305.6	2812.0	2495.5	2514.1	2518.7	2588.6	2709.6	2705.0	2700.3	2723.6	2728.2
67.5°	2393.0	2337.2	2267.3	2248.7	2258.0	2309.2	2430.3	2523.4	2518.7	2462.9	2421.0
70°	2132.3	2053.2	2011.3	2015.9	1978.7	2039.2	2137.0	2197.5	2090.4	2025.2	1997.3
72.5°	1773.8	1750.5	1722.6	1727.3	1652.8	1638.8	1527.1	1527.1	1499.1	1480.5	1513.1
75°	1354.8	1345.5	1359.5	1336.2	1257.0	1173.2	1108.1	1047.5	954.4	917.2	898.6
77.5°	856.7	884.6	917.2	866.0	833.4	772.8	707.7	647.1	572.7	530.8	530.8
80°	582.0	605.2	628.5	619.2	582.0	526.1	474.9	409.7	358.5	325.9	321.2
82.5°	442.3	460.9	493.5	456.3	419.0	372.5	330.6	284.0	237.4	200.2	200.2
85°	158.3	181.6	200.2	218.8	232.8	237.4	204.9	167.6	135.0	107.1	102.4
87.5°	41.9	46.6	51.2	46.6	46.6	46.6	51.2	46.6	41.9	32.6	32.6
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)