

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: P531624

Luminaire Tested: **GALN-SA6D-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531624
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-SA6D-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 31079 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 368
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



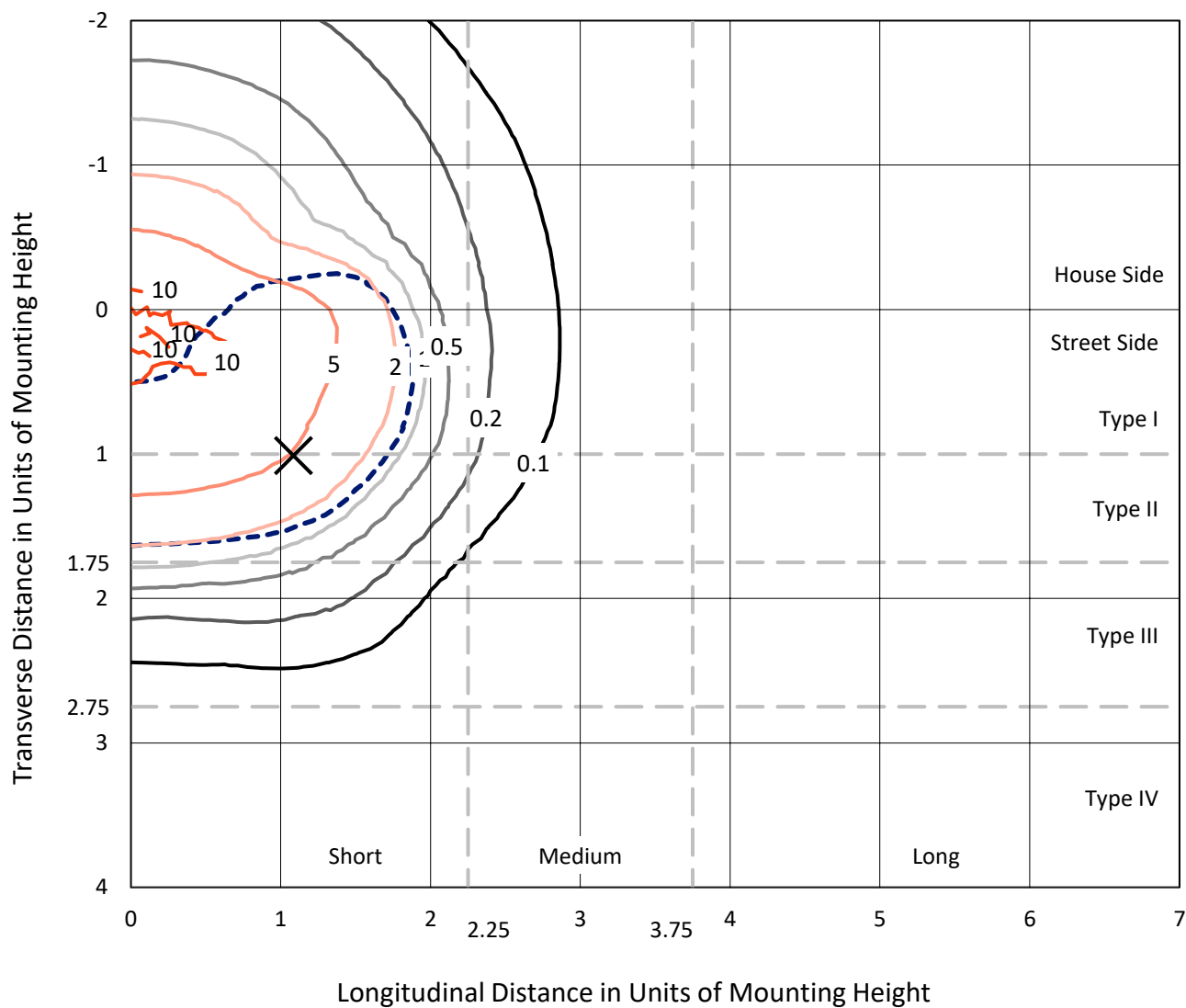
REPORT NUMBER: P531624

CATALOG NUMBER: GALN-SA6D-830-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

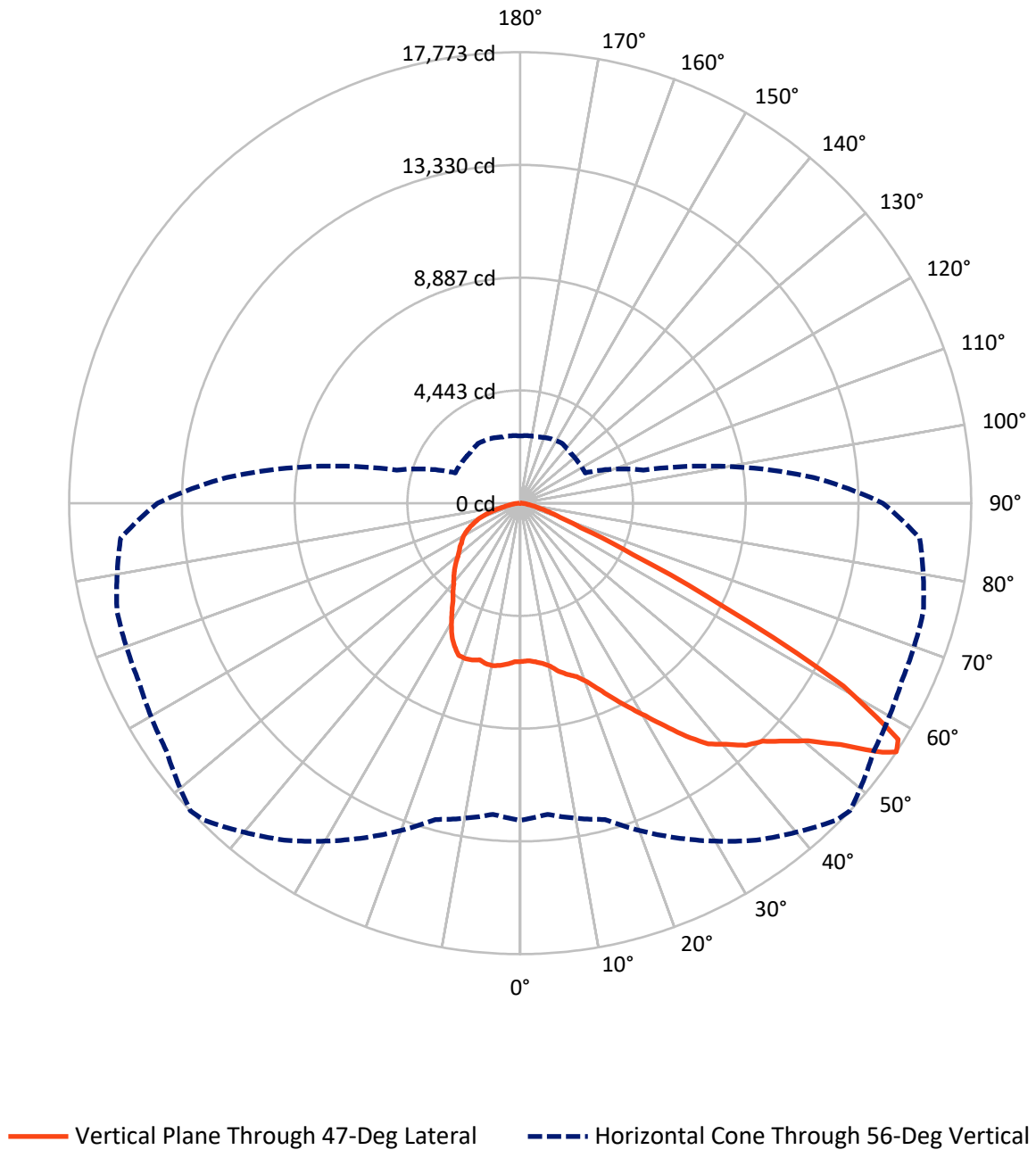


Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
Type II - Short - N/A

REPORT NUMBER: P531624

CATALOG NUMBER: GALN-SA6D-830-U-T3-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P531624

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9848.6	0.0	9848.6
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	21230.4	0.0	21230.4
	% Fixture	68.3	0.0	68.3
Total	Lumens	31079.0	0.0	31079.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.3	2.0
10°-20°	1918.8	6.2
20°-30°	3392.0	10.9
30°-40°	5094.7	16.4
40°-50°	6991.9	22.5
50°-60°	8330.0	26.8
60°-70°	3564.7	11.5
70°-80°	1008.8	3.2
80°-90°	169.8	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°	31079.0	100.0
0°-180°	31079.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531624

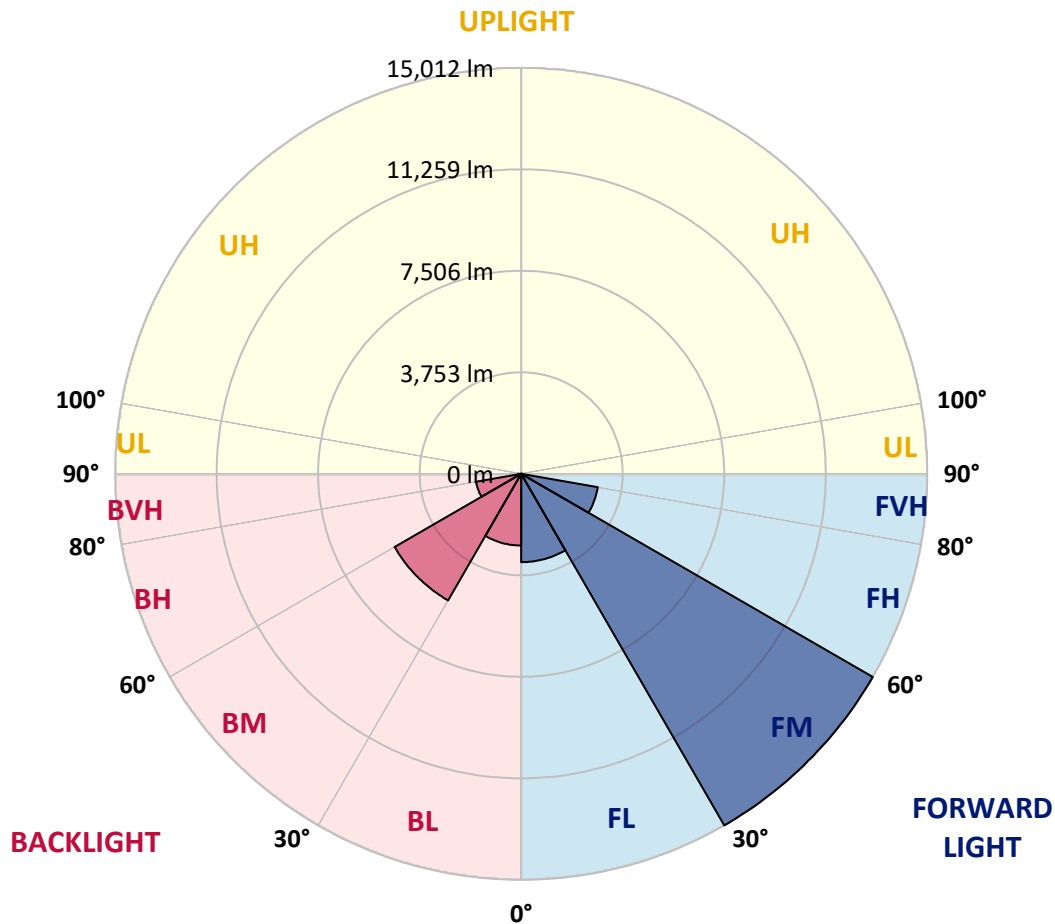
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3267.5	10.5			
FM	(30°-60°)	15011.9	48.3			
FH	(60°-80°)	2879.0	9.3			G2/5000
FVH	(80°-90°)	72.1	0.2			G1/100
BL	(0°-30°)	2651.6	8.5	B4/5000		
BM	(30°-60°)	5404.7	17.4	B4/8500		
BH	(60°-80°)	1694.5	5.5	B3/2500		G3/2500
BVH	(80°-90°)	97.7	0.3			G1/100
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



REPORT NUMBER: P531624

CATALOG NUMBER: GALN-SA6D-830-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8
2.5°	6219.0	6207.2	6199.2	6262.6	6238.9	6242.8	6219.0	6242.8	6258.7	6223.0	6274.5
5°	6207.2	6242.8	6211.1	6230.9	6282.5	6266.6	6282.5	6330.0	6318.1	6306.2	6290.4
7.5°	6318.1	6322.1	6345.9	6353.8	6369.7	6353.8	6377.6	6421.2	6409.3	6341.9	6349.8
10°	6476.7	6484.6	6488.6	6532.2	6559.9	6563.9	6536.1	6496.5	6492.5	6583.7	6520.3
12.5°	6659.0	6639.2	6686.8	6702.6	6734.3	6770.0	6805.7	6722.4	6774.0	6777.9	6702.6
15°	6924.6	6944.4	6888.9	6888.9	6900.8	6904.8	7003.9	6964.2	6956.3	6912.7	6944.4
17.5°	7321.0	7186.2	7182.2	7126.7	7118.8	7150.5	7186.2	7217.9	7324.9	7237.7	7067.3
20°	7610.3	7642.0	7527.1	7459.7	7471.6	7542.9	7507.2	7649.9	7725.3	7582.6	7416.1
22.5°	8121.6	8014.6	8042.3	7891.7	7903.6	7978.9	7975.0	8121.6	8165.2	7939.3	7697.5
25°	8466.5	8438.7	8462.5	8343.6	8359.4	8418.9	8514.0	8755.8	8684.5	8434.8	7875.9
27.5°	8969.9	8914.4	8894.5	8850.9	8835.1	8993.6	9104.6	9362.3	9310.7	8946.1	8193.0
30°	9485.1	9449.5	9469.3	9290.9	9354.3	9691.2	9723.0	10075.7	10051.9	9409.8	8545.7
32.5°	9841.9	9861.7	9897.4	9798.3	10079.7	10349.2	10456.2	10856.6	10876.4	10206.5	9227.5
35°	10416.6	10349.2	10369.0	10484.0	10614.8	11106.3	11280.7	11546.3	11712.7	11042.9	9881.5
37.5°	10777.3	10848.6	10765.4	10947.7	11288.6	11879.2	12037.8	12311.3	12485.7	11867.3	10773.3
40°	11340.1	11225.2	11284.7	11415.5	11764.3	12533.2	12489.6	12771.0	12826.5	12568.9	11605.7
42.5°	11946.6	11891.1	11807.9	12105.1	12398.5	12957.3	13044.5	12913.7	13195.2	13254.6	12794.8
45°	12671.9	12739.3	12751.2	12759.1	13016.8	13504.3	13385.4	13270.5	13595.5	14027.5	13532.1
47.5°	13345.8	13131.7	13286.3	13500.4	13865.0	13869.0	14007.7	13734.2	14079.1	14463.5	14198.0
50°	13571.7	13468.7	13674.8	14079.1	14641.9	14701.4	14717.2	14328.8	14507.1	14812.3	14427.9
52.5°	13484.5	13448.8	13976.0	14602.3	15426.7	15728.0	15807.2	15327.6	15426.7	15288.0	14935.2
55°	13068.3	13175.3	13706.5	14982.8	16247.2	17178.7	17329.3	16722.8	16092.6	16199.6	15811.2
56°	12497.5	12311.3	12905.8	14550.7	16211.5	17650.4	17773.2	17016.2	16588.1	16449.4	15803.3
57.5°	10602.9	10361.1	11142.0	13092.1	15311.8	17472.0	17563.2	17139.0	16504.8	16223.4	14649.8
60°	6207.2	6326.1	7317.0	9029.3	11811.8	14324.8	14630.0	14939.2	14515.1	13254.6	10904.1
62.5°	2996.6	2921.2	3630.7	5176.6	7198.1	9144.3	9053.1	9921.1	10396.8	9417.8	6884.9
65°	1569.6	1561.7	1981.8	2826.1	3955.8	4804.0	4887.2	5355.0	6009.0	4851.6	3496.0
67.5°	1153.4	1185.1	1395.2	1985.8	2544.7	2596.2	2584.3	2818.2	2881.6	2437.7	2148.3
70°	903.7	919.6	1074.2	1510.2	1894.6	1696.5	1660.8	1688.5	1874.8	1954.1	1859.0
72.5°	654.0	669.9	800.7	1018.7	1185.1	1157.4	1181.2	1335.8	1565.7	1648.9	1549.8
75°	436.0	447.9	519.2	622.3	701.6	757.1	800.7	979.0	1193.1	1240.6	1193.1
77.5°	301.2	313.1	360.7	440.0	447.9	483.6	499.4	582.7	713.5	772.9	741.2
80°	170.4	170.4	194.2	225.9	277.5	325.0	333.0	400.3	459.8	499.4	507.4
82.5°	79.3	83.2	103.1	138.7	182.3	225.9	233.9	277.5	321.1	360.7	372.6
85°	39.6	43.6	59.5	83.2	111.0	134.8	130.8	134.8	142.7	134.8	138.7
87.5°	11.9	11.9	15.9	19.8	15.9	19.8	19.8	23.8	27.7	31.7	35.7
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: P531624

CATALOG NUMBER: GALN-SA6D-830-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8
2.5°	6278.5	6290.4	6211.1	6286.4	6258.7	6254.7	6310.2	6302.3	6322.1	6314.2	6266.6
5°	6282.5	6254.7	6338.0	6262.6	6298.3	6373.6	6322.1	6441.0	6381.6	6421.2	6334.0
7.5°	6405.3	6413.3	6397.4	6429.1	6413.3	6448.9	6421.2	6448.9	6401.4	6405.3	6484.6
10°	6512.4	6488.6	6516.3	6476.7	6504.4	6492.5	6429.1	6409.3	6425.2	6405.3	6456.9
12.5°	6710.5	6666.9	6647.1	6599.6	6567.9	6448.9	6349.8	6294.4	6369.7	6381.6	6357.8
15°	6912.7	6916.7	6825.5	6718.5	6520.3	6341.9	6365.7	6385.5	6385.5	6417.2	6357.8
17.5°	7039.5	7039.5	6956.3	6742.3	6540.1	6437.0	6413.3	6349.8	6294.4	6286.4	6282.5
20°	7261.5	7194.1	7003.9	6738.3	6532.2	6484.6	6306.2	6155.6	6040.7	6001.0	5997.1
22.5°	7515.2	7344.7	7079.2	6746.2	6520.3	6452.9	6120.0	5894.0	5687.9	5600.7	5612.6
25°	7749.0	7475.5	7122.8	6710.5	6476.7	6151.7	5779.1	5465.9	5251.9	5180.6	5144.9
27.5°	7911.5	7614.3	7122.8	6742.3	6314.2	5814.7	5434.2	5033.9	4847.6	4800.0	4808.0
30°	8129.5	7788.7	7245.6	6674.9	5989.2	5378.7	4922.9	4661.3	4550.3	4510.7	4538.4
32.5°	8640.9	8244.5	7416.1	6512.4	5604.7	4942.7	4574.1	4427.5	4264.9	4185.7	4157.9
35°	9195.8	8676.5	7582.6	6238.9	5172.6	4546.4	4316.5	4181.7	3987.5	3900.3	3916.1
37.5°	9980.6	9231.5	7594.4	5787.0	4704.9	4324.4	4114.3	3904.2	3745.7	3610.9	3571.3
40°	11038.9	9988.5	7566.7	5311.4	4328.4	4062.8	3908.2	3646.6	3468.2	3373.1	3392.9
42.5°	11970.4	10876.4	7451.8	4772.3	3987.5	3884.4	3710.0	3452.4	3278.0	3178.9	3171.0
45°	12755.2	11530.4	7233.8	4312.5	3702.1	3686.2	3484.1	3285.9	3147.2	3056.0	3095.6
47.5°	13480.5	12057.6	6904.8	3852.7	3440.5	3472.2	3278.0	3155.1	3067.9	2984.7	2980.7
50°	13742.1	12049.6	6615.4	3472.2	3230.4	3214.6	3206.6	3075.8	2984.7	2913.3	2945.0
52.5°	14178.2	12184.4	6302.3	3210.6	3040.2	3044.1	3071.9	2976.7	2873.7	2830.1	2869.7
55°	14804.4	12204.2	5612.6	2905.4	2881.6	2909.4	2909.4	2845.9	2758.7	2723.1	2703.2
56°	14293.1	11613.6	5033.9	2826.1	2802.3	2802.3	2877.6	2806.3	2699.3	2671.5	2647.8
57.5°	13183.3	10174.8	4213.4	2731.0	2695.3	2750.8	2790.4	2715.1	2616.0	2576.4	2600.2
60°	9092.7	6884.9	3167.0	2524.9	2524.9	2616.0	2647.8	2536.8	2493.2	2489.2	2457.5
62.5°	5307.4	4011.3	2477.3	2338.6	2346.5	2421.8	2445.6	2382.2	2326.7	2394.1	2425.8
65°	2814.2	2394.1	2124.5	2140.4	2144.4	2203.8	2306.9	2302.9	2298.9	2318.8	2322.7
67.5°	2037.3	1989.8	1930.3	1914.5	1922.4	1966.0	2069.1	2148.3	2144.4	2096.8	2061.1
70°	1815.4	1748.0	1712.3	1716.3	1684.6	1736.1	1819.3	1870.9	1779.7	1724.2	1700.4
72.5°	1510.2	1490.4	1466.6	1470.5	1407.1	1395.2	1300.1	1300.1	1276.3	1260.5	1288.2
75°	1153.4	1145.5	1157.4	1137.6	1070.2	998.9	943.4	891.8	812.6	780.8	765.0
77.5°	729.3	753.1	780.8	737.2	709.5	658.0	602.5	551.0	487.5	451.9	451.9
80°	495.5	515.3	535.1	527.2	495.5	447.9	404.3	348.8	305.2	277.5	273.5
82.5°	376.6	392.4	420.2	388.4	356.7	317.1	281.4	241.8	202.1	170.4	170.4
85°	134.8	154.6	170.4	186.3	198.2	202.1	174.4	142.7	114.9	91.2	87.2
87.5°	35.7	39.6	43.6	39.6	39.6	39.6	43.6	39.6	35.7	27.7	27.7
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)