

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: P454333

Luminaire Tested: **GALN-SA5B-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16306 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): 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

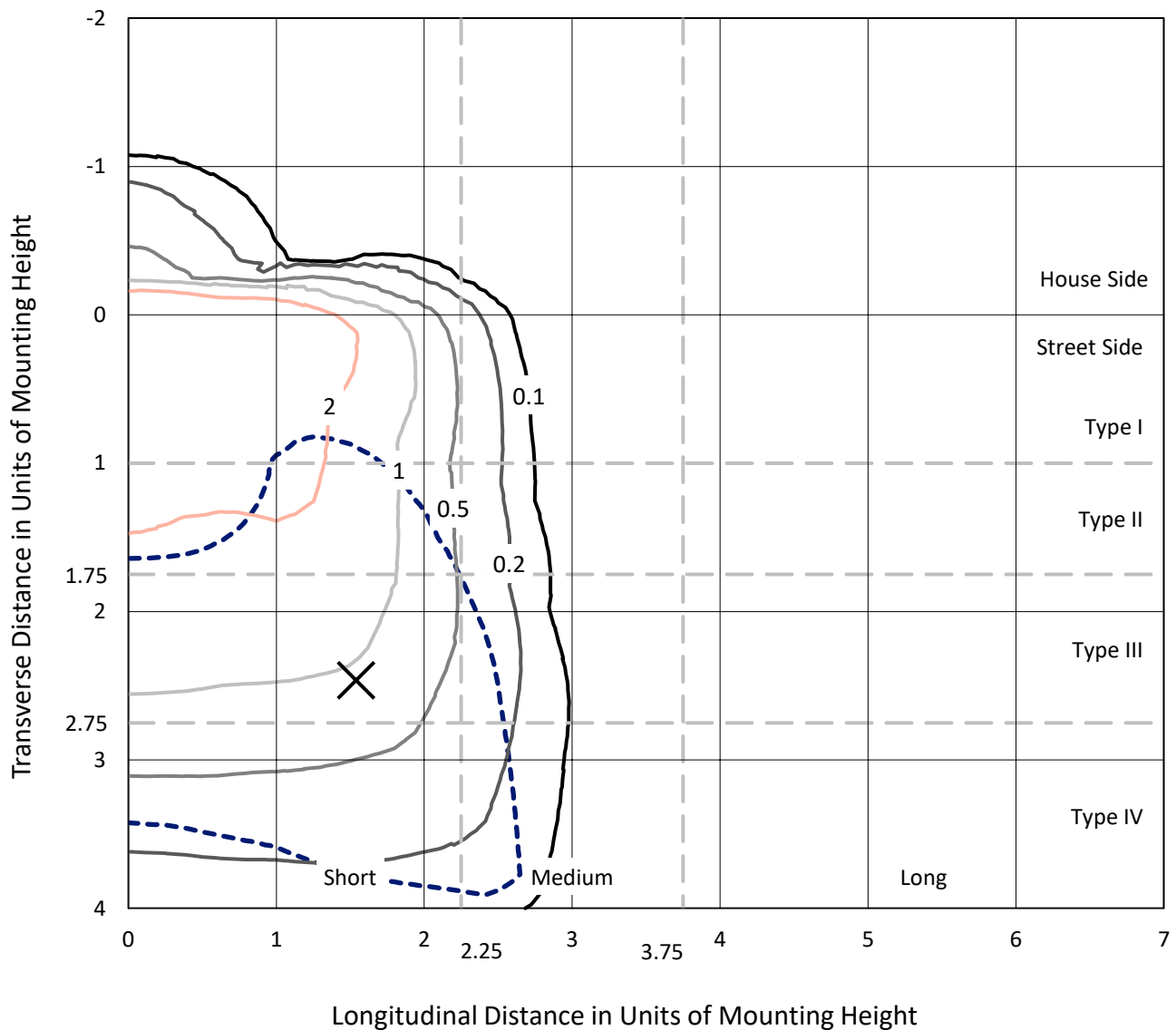


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

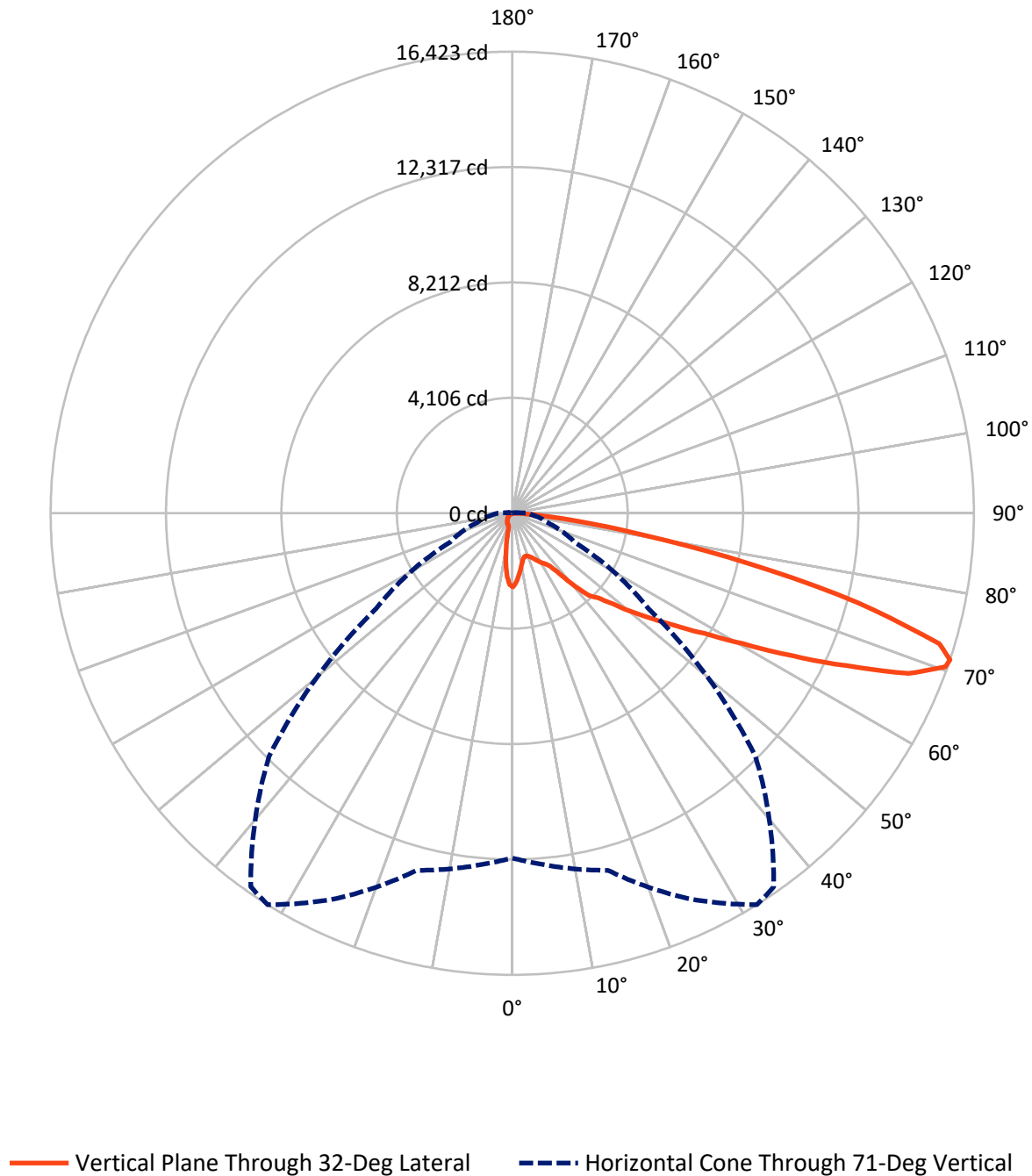


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1365.8	0.0	1365.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	14940.2	0.0	14940.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	16306.0	0.0	16306.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.2	1.3
10°-20°	462.8	2.8
20°-30°	719.9	4.4
30°-40°	1199.4	7.4
40°-50°	2231.1	13.7
50°-60°	3582.1	22.0
60°-70°	4818.0	29.5
70°-80°	2858.6	17.5
80°-90°	221.0	1.4
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°	16306.0	100.0
0°-180°	16306.0	100.0

Coefficient of Utilization



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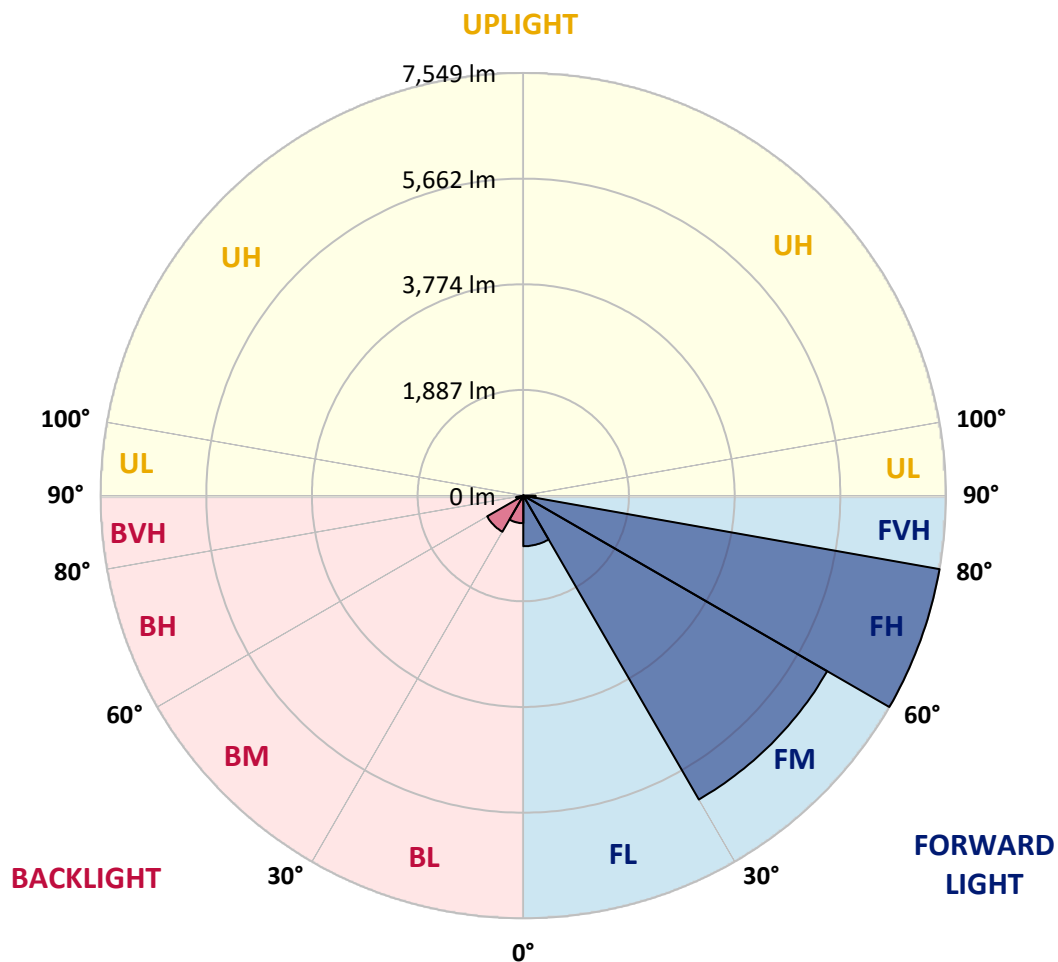
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	903.8	5.5			
FM	(30°-60°)	6267.4	38.4			
FH	(60°-80°)	7548.9	46.3			G4/12000
FVH	(80°-90°)	220.1	1.3			G2/225
BL	(0°-30°)	492.1	3.0	B1/500		
BM	(30°-60°)	745.1	4.6	B1/1000		
BH	(60°-80°)	127.7	0.8	B1/500		G1/500
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2622.3	2622.3	2622.3	2622.3	2622.3	2622.3	2622.3	2622.3	2622.3	2622.3	2622.3
2.5°	2432.0	2457.0	2453.3	2462.0	2483.3	2492.1	2515.9	2542.2	2578.5	2603.5	2619.8
5°	2177.9	2196.7	2199.2	2243.0	2264.3	2288.1	2358.2	2434.5	2519.6	2587.2	2632.3
7.5°	1906.3	1916.3	1936.3	1993.9	2047.7	2071.5	2177.9	2310.6	2444.5	2570.9	2652.3
10°	1682.3	1693.5	1729.8	1791.1	1841.2	1872.5	2020.2	2186.7	2374.4	2562.2	2681.1
12.5°	1554.6	1560.8	1574.6	1629.7	1693.5	1727.3	1886.3	2076.5	2318.1	2565.9	2729.9
15°	1545.8	1543.3	1527.0	1549.6	1607.2	1642.2	1797.4	2001.4	2268.0	2578.5	2787.5
17.5°	1592.1	1585.9	1547.1	1547.1	1594.6	1623.4	1759.9	1961.4	2243.0	2607.2	2868.8
20°	1663.5	1653.5	1589.6	1584.6	1630.9	1661.0	1782.4	1963.9	2248.0	2661.1	2977.7
22.5°	1753.6	1742.3	1646.0	1648.5	1698.5	1728.6	1847.5	2008.9	2279.3	2727.4	3094.1
25°	1871.3	1858.7	1744.8	1739.8	1792.4	1818.7	1943.9	2089.0	2323.1	2810.0	3246.8
27.5°	2027.7	2001.4	1865.0	1857.5	1913.8	1947.6	2060.3	2196.7	2400.7	2923.9	3452.1
30°	2156.6	2127.8	1997.7	1977.6	2037.7	2064.0	2180.4	2341.9	2553.4	3122.9	3736.3
32.5°	2325.6	2283.1	2130.4	2077.8	2141.6	2175.4	2354.4	2612.2	2780.0	3333.2	4074.2
35°	2706.1	2679.8	2493.3	2309.3	2305.6	2348.1	2611.0	2885.1	3012.8	3661.1	4534.8
37.5°	3250.6	3231.8	3034.1	2787.5	2716.1	2696.1	2922.7	3185.5	3384.5	4111.8	5070.5
40°	3882.7	3838.9	3657.4	3448.4	3355.7	3296.9	3290.7	3632.4	3870.2	4723.8	5628.8
42.5°	4335.8	4255.7	4035.4	4020.4	4000.4	3939.0	3761.3	4285.7	4497.3	5382.2	6225.8
45°	4811.4	4690.0	4362.1	4305.8	4298.3	4294.5	4472.2	5059.3	5180.7	6095.7	6839.2
47.5°	5180.7	5084.3	4815.2	4790.2	4821.5	4906.6	5412.2	5880.4	5855.3	6731.5	7353.6
50°	5672.6	5600.0	5300.8	5348.4	5509.9	5648.8	6472.4	6775.3	6409.8	7232.2	7727.8
52.5°	6253.4	6119.4	5841.6	5970.5	6218.3	6449.9	7597.7	7558.9	6799.1	7608.9	8007.0
55°	6756.5	6661.4	6566.3	6700.2	7070.7	7359.9	8614.0	8145.9	7082.0	7911.8	8129.6
57.5°	7607.7	7585.2	7487.5	7624.0	8073.3	8373.7	9524.0	8601.5	7263.5	8069.5	7985.7
60°	8866.9	8830.6	8649.1	8823.1	9408.8	9880.7	10362.6	9010.8	7304.8	8008.2	7571.4
62.5°	10381.4	10257.5	10102.3	10358.9	11162.4	11370.2	11152.4	9253.6	7150.8	7520.1	6572.5
65°	11795.8	11668.1	11671.9	12212.6	13087.5	13229.0	12073.7	9217.3	6700.2	6297.2	4847.7
67.5°	12878.5	12857.2	13009.9	14065.1	15209.1	15111.5	12897.3	8674.1	5364.7	4081.7	2575.9
70°	12933.6	12974.9	13413.0	15194.1	16355.6	16200.4	12827.2	7050.7	3344.5	1877.5	1015.1
71°	12267.7	12545.5	13151.4	15159.0	16423.2	16221.7	12236.4	5905.4	2453.3	1309.3	732.2
72.5°	10454.0	10600.4	11909.7	14266.6	15888.8	15458.2	10738.1	4139.3	1570.9	801.1	420.6
75°	5757.7	6118.2	7975.7	11192.5	12708.3	12330.3	6998.1	1966.4	783.5	438.1	174.0
77.5°	2741.2	2671.1	3891.5	6656.4	8616.5	8596.5	3526.0	873.7	456.9	296.6	87.6
80°	783.5	881.2	1489.5	3164.2	4783.9	4836.5	1354.3	421.8	316.7	231.6	45.1
82.5°	236.6	241.6	547.0	1399.4	2379.4	2243.0	508.2	215.3	227.8	184.0	26.3
85°	41.3	51.3	161.5	493.2	907.5	688.4	127.7	102.6	150.2	121.4	15.0
87.5°	2.5	3.8	53.8	56.3	80.1	46.3	22.5	15.0	32.5	32.5	8.8
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°	2622.3	2622.3	2622.3	2622.3	2622.3	2622.3	2622.3	2622.3	2622.3	2622.3	2622.3
2.5°	2631.0	2638.5	2633.5	2622.3	2603.5	2581.0	2550.9	2525.9	2504.6	2493.3	2507.1
5°	2647.3	2657.3	2632.3	2575.9	2490.8	2398.2	2293.1	2211.7	2147.9	2127.8	2120.3
7.5°	2672.3	2678.6	2611.0	2485.8	2305.6	2086.5	1895.0	1733.6	1608.4	1570.9	1515.8
10°	2704.9	2701.1	2573.4	2340.6	2024.0	1694.8	1398.1	1177.8	1011.4	951.3	946.3
12.5°	2754.9	2734.9	2525.9	2142.9	1688.5	1257.9	891.2	697.2	592.0	557.0	549.5
15°	2817.5	2770.0	2450.8	1911.3	1293.0	812.3	549.5	490.7	476.9	474.4	471.9
17.5°	2891.4	2816.3	2351.9	1627.2	908.7	527.0	459.4	458.1	459.4	456.9	455.6
20°	2991.5	2865.1	2234.2	1290.5	600.8	444.3	438.1	438.1	439.3	438.1	438.1
22.5°	3097.9	2922.7	2089.0	985.1	453.1	421.8	420.6	423.1	425.6	424.3	424.3
25°	3229.3	2997.8	1897.5	674.7	405.5	403.0	404.3	409.3	414.3	415.6	414.3
27.5°	3419.6	3090.4	1692.3	464.4	371.7	374.3	386.8	399.3	406.8	408.0	408.0
30°	3633.6	3193.0	1424.4	376.8	344.2	344.2	359.2	383.0	399.3	401.8	403.0
32.5°	3909.0	3311.9	1127.8	339.2	317.9	315.4	329.2	358.0	388.0	396.8	396.8
35°	4249.4	3452.1	838.6	315.4	299.2	292.9	300.4	324.2	363.0	388.0	390.5
37.5°	4648.7	3584.8	613.3	294.1	281.6	272.9	277.9	296.6	327.9	365.5	375.5
40°	5018.0	3702.5	458.1	276.6	264.1	257.8	261.6	270.4	296.6	331.7	338.0
42.5°	5421.0	3793.8	364.2	257.8	246.6	244.1	244.1	247.8	265.4	285.4	286.6
45°	5822.8	3826.4	305.4	235.3	227.8	230.3	229.1	226.6	234.1	231.6	231.6
47.5°	6109.4	3787.6	252.8	214.0	214.0	217.8	211.5	202.8	199.0	184.0	185.2
50°	6305.9	3646.1	207.8	189.0	199.0	204.0	191.5	177.7	164.0	147.7	143.9
52.5°	6387.3	3394.5	170.2	156.5	176.5	182.7	167.7	151.5	130.2	116.4	112.7
55°	6334.7	3084.1	141.4	127.7	148.9	156.5	141.4	122.7	98.9	83.9	81.4
57.5°	6103.2	2713.6	120.2	101.4	118.9	123.9	113.9	93.9	70.1	55.1	55.1
60°	5702.6	2330.6	97.6	80.1	88.9	96.4	86.4	67.6	47.6	33.8	31.3
62.5°	4890.3	1892.5	78.9	62.6	62.6	68.8	60.1	48.8	30.0	17.5	16.3
65°	3531.0	1298.0	62.6	46.3	45.1	45.1	37.6	32.5	17.5	7.5	5.0
67.5°	1918.8	732.2	50.1	35.0	31.3	30.0	23.8	18.8	7.5	1.3	0.0
70°	754.8	281.6	38.8	23.8	20.0	18.8	12.5	8.8	5.0	0.0	0.0
71°	511.9	194.0	33.8	20.0	16.3	13.8	10.0	7.5	3.8	0.0	0.0
72.5°	292.9	120.2	26.3	15.0	12.5	10.0	7.5	5.0	3.8	0.0	0.0
75°	127.7	61.3	16.3	11.3	8.8	6.3	5.0	3.8	1.3	0.0	0.0
77.5°	65.1	33.8	11.3	8.8	5.0	3.8	2.5	1.3	0.0	0.0	0.0
80°	36.3	17.5	7.5	5.0	3.8	2.5	1.3	1.3	0.0	0.0	0.0
82.5°	20.0	10.0	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.5	6.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	2.5	0.0	0.0	0.0	0.0	1.3	1.3	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)