

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: P456183

Luminaire Tested: **GALN-SA7B-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25215 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 286
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

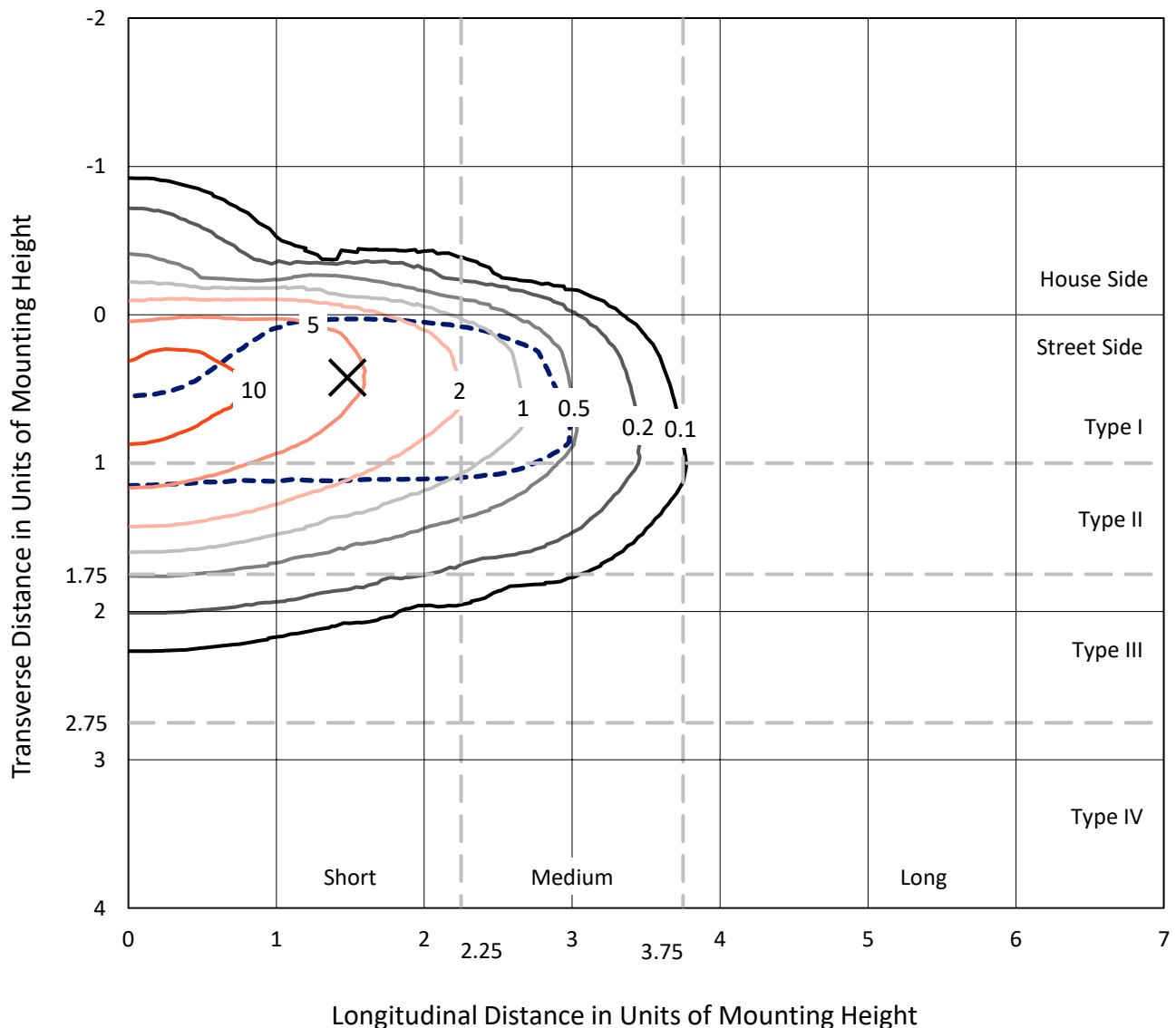


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Iso-Footcandle Lines of Horizontal Illumination

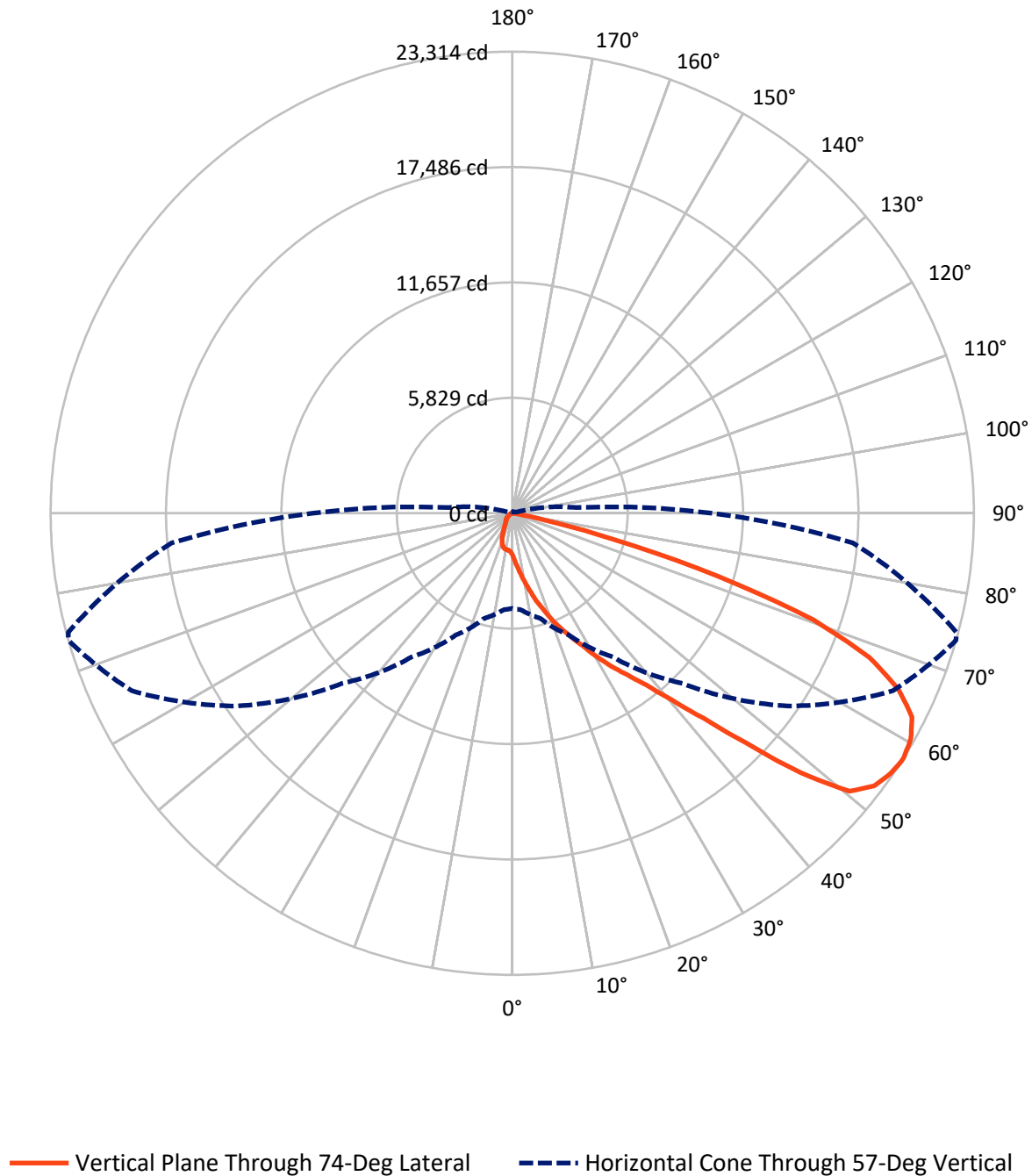
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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	1454.3	0.0	1454.3
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	23760.7	0.0	23760.7
	% Fixture	94.2	0.0	94.2
Total	Lumens	25215.0	0.0	25215.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.9	1.0
10°-20°	1004.7	4.0
20°-30°	2149.8	8.5
30°-40°	3951.2	15.7
40°-50°	6057.3	24.0
50°-60°	6407.8	25.4
60°-70°	4184.5	16.6
70°-80°	1143.3	4.5
80°-90°	61.6	0.2
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°	25215.0	100.0
0°-180°	25215.0	100.0

Coefficient of Utilization



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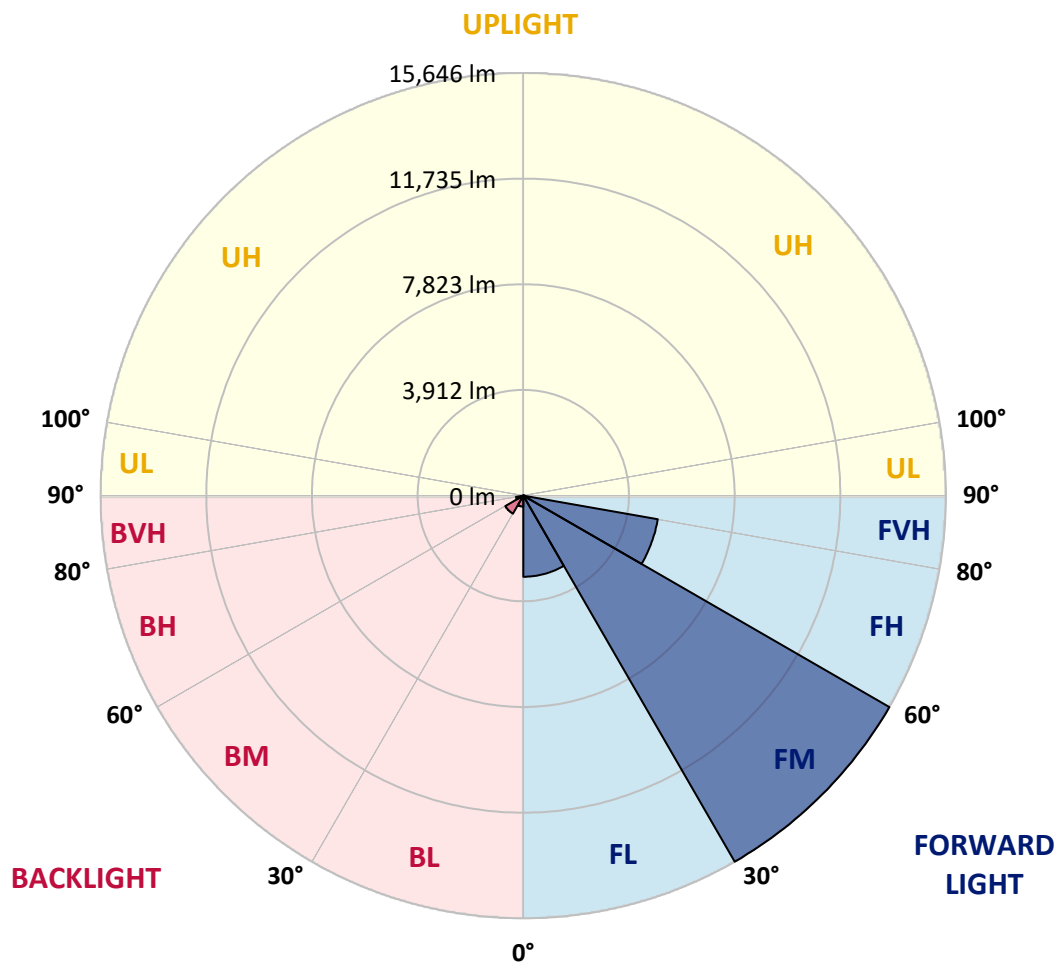
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3003.1	11.9			
FM	(30°-60°)	15646.4	62.1			
FH	(60°-80°)	5054.8	20.0			G3/7500
FVH	(80°-90°)	56.5	0.2			G1/100
BL	(0°-30°)	406.2	1.6	B1/500		
BM	(30°-60°)	770.0	3.1	B1/1000		
BH	(60°-80°)	273.0	1.1	B1/500		G1/500
BVH	(80°-90°)	5.1	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7
2.5°	3090.1	3062.3	3006.6	2987.4	2905.6	2778.5	2667.1	2517.4	2399.0	2386.8	2244.0
5°	4138.1	4075.5	4049.4	3924.0	3727.3	3542.8	3225.9	2985.7	2708.9	2688.0	2400.7
7.5°	5147.9	5060.8	5034.7	4916.3	4686.5	4395.8	3984.9	3548.0	3109.3	3069.2	2611.4
10°	5879.1	5891.2	5844.2	5765.9	5579.6	5283.7	4777.1	4179.9	3554.9	3504.5	2848.1
12.5°	6403.1	6401.3	6410.0	6408.3	6309.1	6084.5	5551.8	4864.1	4045.9	3946.6	3119.7
15°	6744.3	6749.5	6775.6	6866.1	6876.6	6737.3	6293.4	5518.7	4615.2	4491.5	3413.9
17.5°	7089.0	7125.5	7167.3	7252.6	7329.2	7273.5	6960.2	6201.1	5130.5	5038.2	3729.0
20°	7658.3	7708.7	7684.4	7736.6	7776.6	7781.9	7539.9	6831.3	5755.4	5600.5	4089.4
22.5°	8568.8	8567.0	8504.3	8410.3	8332.0	8328.5	8109.2	7478.9	6323.0	6173.3	4451.5
25°	9719.5	9724.7	9602.9	9334.8	9139.8	8901.3	8648.8	8046.5	6930.6	6746.0	4832.8
27.5°	11039.1	11006.0	10821.5	10452.4	10065.9	9658.6	9294.7	8706.3	7574.7	7421.5	5269.7
30°	12224.7	12212.5	11996.6	11545.7	11037.4	10628.3	10100.8	9533.2	8408.6	8220.6	5758.9
32.5°	13328.4	13345.8	13046.4	12579.8	12088.9	11617.1	11060.0	10323.6	9226.8	8960.5	6291.6
35°	14190.2	14207.6	13897.7	13509.5	13004.6	12612.9	12081.9	11166.2	10034.6	9810.0	6904.4
37.5°	14649.8	14672.4	14493.1	14200.6	13885.5	13688.8	13194.4	12250.8	11016.5	10880.7	7628.7
40°	14736.8	14762.9	14684.6	14606.2	14588.8	14729.8	14585.3	13528.6	12377.9	12165.5	8708.0
42.5°	14475.7	14510.5	14545.3	14719.4	15074.5	15591.6	16094.7	15262.6	14131.0	13845.5	10027.6
45°	13789.7	13786.3	13923.8	14374.7	15170.3	16274.0	17672.0	17433.5	16519.5	16180.0	11892.2
47.5°	12616.4	12599.0	12896.7	13539.1	14778.6	16399.4	18958.5	20069.2	19567.8	19254.5	13895.9
50°	10828.5	10913.8	11382.1	12278.6	13805.4	16019.9	19355.4	21797.9	22069.5	21737.0	15515.0
52.5°	8734.1	8730.7	9465.3	10682.2	12363.9	15184.2	19078.6	22111.3	22882.5	22628.3	16312.3
55°	6464.0	6509.3	7273.5	8500.9	10492.5	13659.2	18175.1	21789.2	23192.4	23013.1	16838.1
57°	4808.4	4888.5	5501.3	6800.0	8863.0	12149.8	16972.1	21213.0	23314.3	23216.8	17275.0
57.5°	4488.1	4491.5	5088.7	6269.0	8386.0	11570.1	16627.4	20972.7	23310.8	23256.8	17346.4
60°	2762.8	2849.9	3262.5	4237.4	6138.4	9030.1	14317.2	19592.2	23129.7	23208.1	17651.1
62.5°	1653.9	1690.4	1958.5	2553.9	3957.1	6591.1	11716.3	17825.2	22657.9	22896.4	17630.2
65°	1063.7	1072.4	1194.3	1545.9	2473.8	4455.0	9028.4	15490.6	21437.6	21876.3	16940.8
67.5°	821.7	835.6	884.4	1015.0	1434.5	2775.0	6385.7	12999.4	19463.4	20029.2	15269.5
70°	729.4	736.4	753.8	795.6	948.8	1566.8	3972.8	10154.7	16140.0	16300.1	11949.6
72.5°	595.4	614.5	668.5	682.4	752.1	978.4	2211.0	6815.7	10844.1	10884.2	6685.1
75°	461.3	464.8	544.9	584.9	633.7	673.7	987.1	3436.6	5208.8	4930.3	2576.5
77.5°	344.7	360.4	396.9	447.4	517.1	482.2	442.2	1295.2	1617.3	1587.7	748.6
80°	221.1	229.8	276.8	336.0	402.2	315.1	249.0	379.5	355.1	365.6	179.3
82.5°	111.4	113.2	177.6	273.3	255.9	158.4	156.7	154.9	132.3	130.6	83.6
85°	12.2	26.1	114.9	156.7	114.9	52.2	73.1	71.4	69.6	71.4	48.7
87.5°	1.7	1.7	19.2	22.6	15.7	17.4	20.9	22.6	27.9	26.1	20.9
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°	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7
2.5°	2174.4	2104.8	1975.9	1852.3	1760.1	1700.9	1624.3	1596.4	1556.4	1551.2	1532.0
5°	2268.4	2136.1	1911.5	1733.9	1591.2	1483.3	1389.2	1310.9	1248.2	1234.3	1241.3
7.5°	2402.5	2205.7	1892.4	1650.4	1451.9	1267.4	1117.7	1025.4	959.2	934.9	938.4
10°	2553.9	2298.0	1888.9	1561.6	1258.7	1032.4	868.7	786.9	748.6	734.7	719.0
12.5°	2733.2	2404.2	1880.2	1424.1	1046.3	823.5	706.8	658.1	621.5	611.1	611.1
15°	2935.2	2517.4	1838.4	1253.5	849.6	680.7	602.4	564.1	551.9	541.4	541.4
17.5°	3145.8	2628.8	1751.4	1042.8	705.1	583.2	534.5	511.8	494.4	482.2	482.2
20°	3386.1	2738.5	1612.1	856.5	595.4	520.5	482.2	456.1	442.2	431.7	428.3
22.5°	3614.1	2827.2	1434.5	703.3	518.8	468.3	433.5	405.6	391.7	386.5	386.5
25°	3850.9	2881.2	1220.4	581.5	473.5	424.8	386.5	363.9	351.7	348.2	346.4
27.5°	4080.7	2912.5	1032.4	508.3	431.7	384.7	348.2	330.8	318.6	315.1	316.8
30°	4359.2	2917.8	849.6	456.1	395.2	346.4	313.4	297.7	290.7	287.3	285.5
32.5°	4641.3	2910.8	713.8	424.8	360.4	313.4	285.5	273.3	268.1	262.9	262.9
35°	4958.1	2874.2	607.6	393.4	327.3	285.5	261.1	250.7	243.7	238.5	236.8
37.5°	5351.6	2855.1	546.6	358.6	297.7	259.4	236.8	226.3	221.1	214.1	212.4
40°	5971.3	2940.4	527.5	327.3	268.1	235.0	214.1	201.9	195.0	188.0	186.3
42.5°	6744.3	3090.1	496.2	296.0	242.0	212.4	191.5	177.6	165.4	156.7	153.2
45°	7745.3	3286.8	447.4	262.9	219.4	188.0	168.9	151.5	135.8	128.8	127.1
47.5°	8795.1	3476.6	403.9	236.8	195.0	167.1	146.2	127.1	113.2	107.9	106.2
50°	9439.2	3514.9	376.0	207.2	170.6	144.5	123.6	106.2	97.5	92.3	92.3
52.5°	9733.4	3454.0	337.7	181.1	148.0	127.1	106.2	92.3	87.0	83.6	81.8
55°	9938.9	3360.0	287.3	156.7	127.1	107.9	94.0	83.6	76.6	73.1	71.4
57°	10059.0	3232.9	249.0	137.5	109.7	94.0	83.6	74.9	67.9	60.9	60.9
57.5°	10064.2	3184.1	238.5	135.8	104.5	90.5	81.8	73.1	64.4	57.5	55.7
60°	9909.3	2849.9	191.5	114.9	83.6	76.6	67.9	57.5	45.3	38.3	36.6
62.5°	9411.4	2425.1	158.4	97.5	67.9	59.2	48.7	43.5	31.3	22.6	22.6
65°	8657.5	1967.2	135.8	78.3	55.7	43.5	33.1	31.3	19.2	10.4	8.7
67.5°	7567.7	1532.0	114.9	64.4	47.0	31.3	22.6	20.9	10.4	3.5	0.0
70°	5765.9	1044.5	95.8	52.2	34.8	22.6	15.7	12.2	7.0	1.7	0.0
72.5°	3323.4	574.5	80.1	40.0	26.1	17.4	12.2	7.0	7.0	0.0	0.0
75°	1187.3	247.2	60.9	29.6	20.9	13.9	8.7	3.5	5.2	1.7	0.0
77.5°	377.8	132.3	40.0	22.6	17.4	10.4	7.0	3.5	3.5	1.7	0.0
80°	111.4	69.6	24.4	19.2	12.2	8.7	5.2	1.7	3.5	1.7	0.0
82.5°	60.9	34.8	19.2	13.9	12.2	7.0	5.2	1.7	1.7	1.7	0.0
85°	31.3	20.9	15.7	13.9	12.2	7.0	5.2	1.7	0.0	1.7	1.7
87.5°	17.4	15.7	15.7	13.9	12.2	8.7	5.2	1.7	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)