

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: P457111

Luminaire Tested: **GALN-SA8B-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457111
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-SA8B-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 29233 lumens
Efficiency: N/A
Efficacy: 89.9 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): 325
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

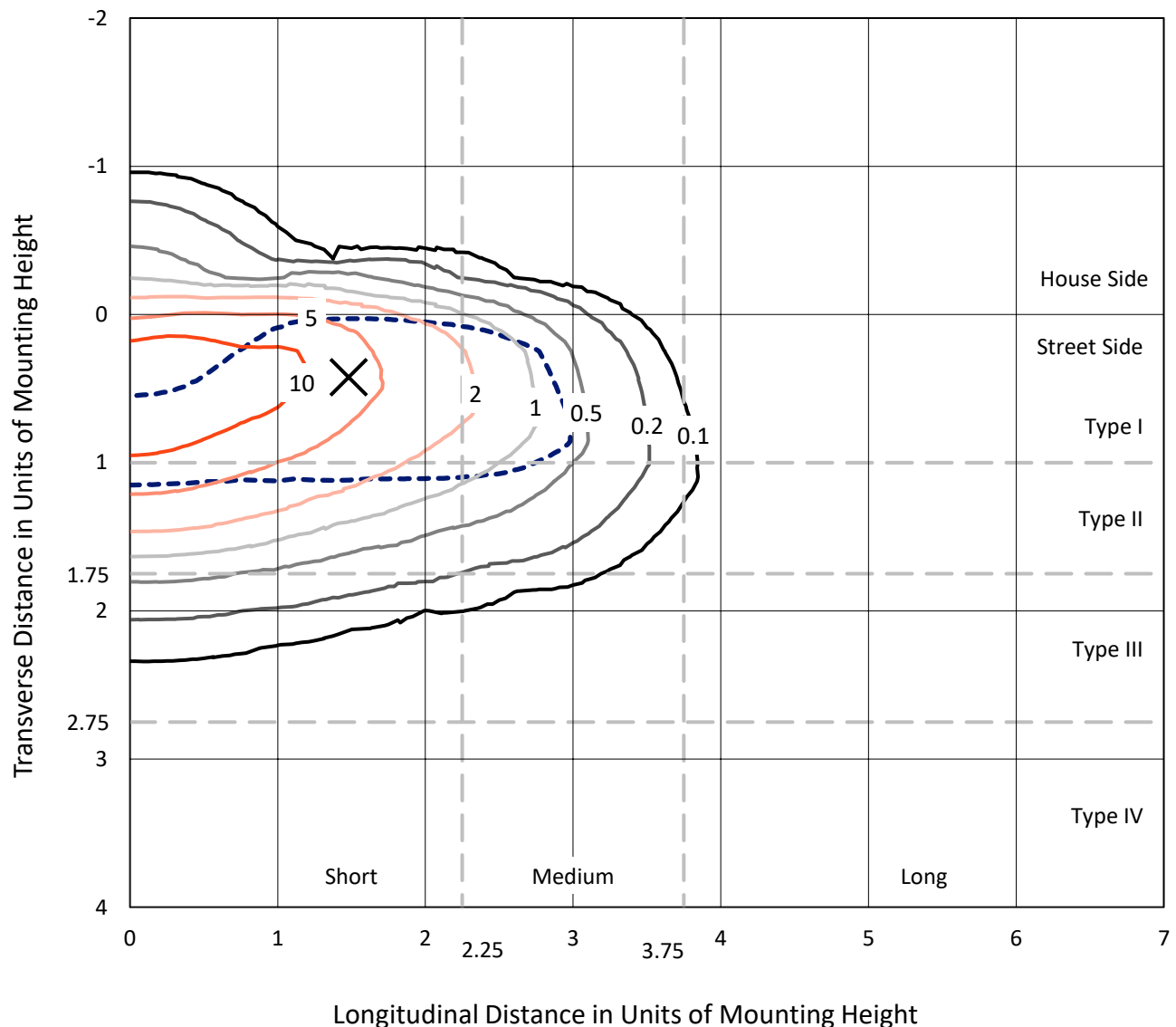


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

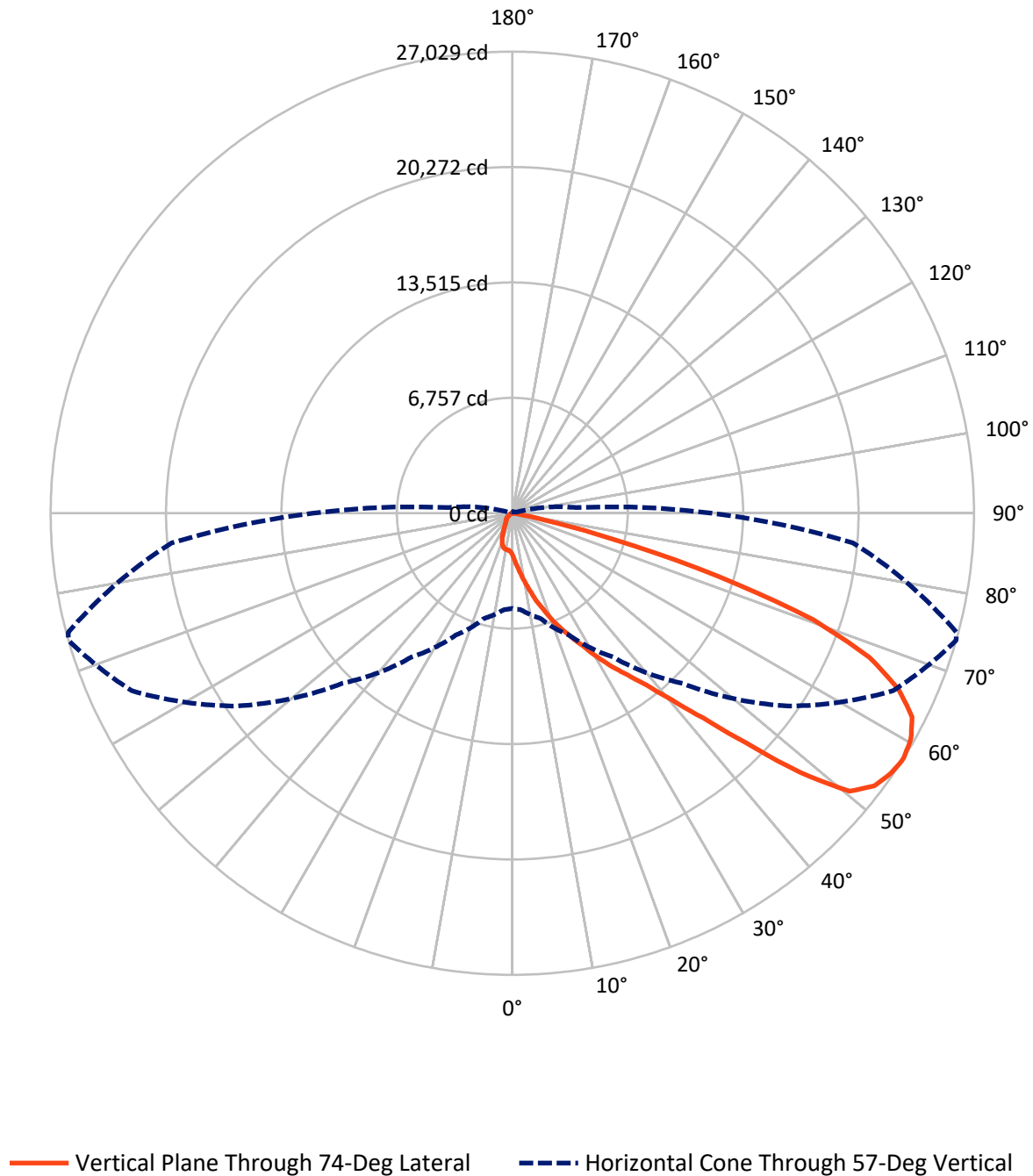


Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1686.1	0.0	1686.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	27546.9	0.0	27546.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	29233.0	0.0	29233.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.5	1.0
10°-20°	1164.8	4.0
20°-30°	2492.3	8.5
30°-40°	4580.9	15.7
40°-50°	7022.5	24.0
50°-60°	7428.9	25.4
60°-70°	4851.3	16.6
70°-80°	1325.5	4.5
80°-90°	71.4	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°	29233.0	100.0
0°-180°	29233.0	100.0

Coefficient of Utilization



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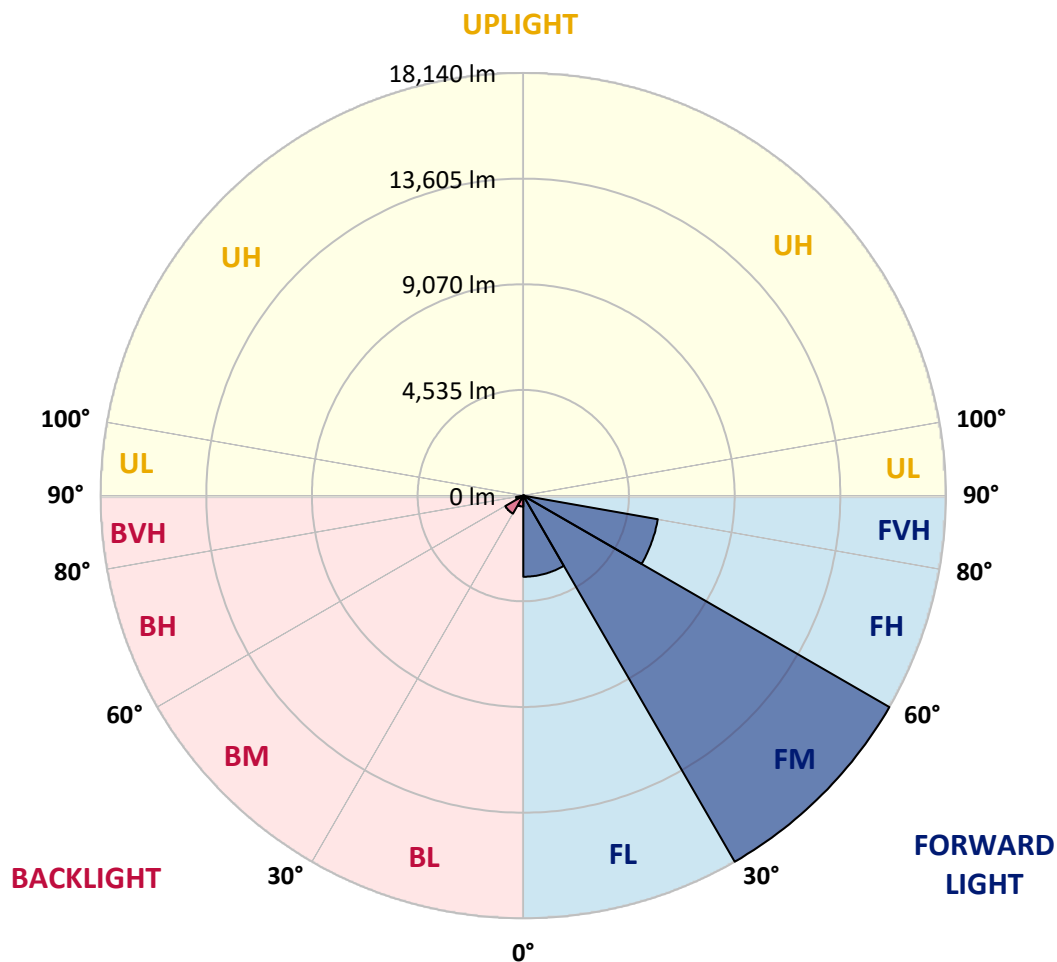
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3481.6	11.9			
FM	(30°-60°)	18139.6	62.1			
FH	(60°-80°)	5860.2	20.0			G3/7500
FVH	(80°-90°)	65.5	0.2			G1/100
BL	(0°-30°)	471.0	1.6	B1/500		
BM	(30°-60°)	892.6	3.1	B1/1000		
BH	(60°-80°)	316.5	1.1	B1/500		G1/500
BVH	(80°-90°)	5.9	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2
2.5°	3582.5	3550.2	3485.6	3463.4	3368.6	3221.2	3092.1	2918.5	2781.2	2767.1	2601.6
5°	4797.6	4724.9	4694.6	4549.3	4321.2	4107.3	3740.0	3461.4	3140.5	3116.3	2783.3
7.5°	5968.2	5867.3	5837.0	5699.7	5433.3	5096.3	4619.9	4113.3	3604.7	3558.3	3027.5
10°	6815.9	6830.0	6775.5	6684.7	6468.7	6125.6	5538.3	4846.0	4121.4	4062.9	3302.0
12.5°	7423.4	7421.4	7431.5	7429.4	7314.4	7054.0	6436.4	5639.2	4690.6	4575.5	3616.8
15°	7819.0	7825.0	7855.3	7960.3	7972.4	7810.9	7296.2	6398.1	5350.6	5207.3	3957.9
17.5°	8218.6	8261.0	8309.4	8408.3	8497.1	8432.6	8069.3	7189.3	5948.0	5841.0	4323.2
20°	8878.6	8937.1	8908.9	8969.4	9015.8	9021.9	8741.4	7919.9	6672.6	6492.9	4741.0
22.5°	9934.2	9932.2	9859.5	9750.5	9659.7	9655.7	9401.3	8670.7	7330.5	7157.0	5160.9
25°	11268.3	11274.4	11133.1	10822.2	10596.2	10319.7	10027.0	9328.7	8034.9	7821.0	5602.9
27.5°	12798.2	12759.8	12545.9	12118.0	11669.9	11197.7	10775.8	10093.6	8781.7	8604.1	6109.5
30°	14172.7	14158.5	13908.3	13385.5	12796.2	12321.9	11710.3	11052.3	9748.5	9530.5	6676.6
32.5°	15452.3	15472.5	15125.3	14584.4	14015.2	13468.3	12822.4	11968.7	10697.1	10388.3	7294.2
35°	16451.3	16471.5	16112.3	15662.2	15076.9	14622.7	14007.2	12945.5	11633.6	11373.2	8004.7
37.5°	16984.2	17010.4	16802.5	16463.5	16098.1	15870.1	15296.9	14202.9	12771.9	12614.5	8844.3
40°	17085.1	17115.4	17024.6	16933.7	16913.5	17077.0	16909.5	15684.4	14350.3	14104.0	10095.7
42.5°	16782.4	16822.7	16863.1	17064.9	17476.7	18076.1	18659.4	17694.6	16382.7	16051.7	11625.5
45°	15987.1	15983.1	16142.5	16665.3	17587.7	18867.3	20488.0	20211.5	19151.9	18758.3	13787.2
47.5°	14626.8	14606.6	14951.7	15696.5	17133.5	19012.6	21979.5	23267.2	22685.9	22322.7	16110.3
50°	12554.0	12652.9	13195.8	14235.2	16005.3	18572.6	22439.7	25271.4	25586.3	25200.8	17987.3
52.5°	10125.9	10121.9	10973.6	12384.4	14334.1	17603.8	22118.8	25634.7	26528.8	26234.2	18911.7
55°	7494.0	7546.5	8432.6	9855.5	12164.4	15835.8	21071.3	25261.3	26888.1	26680.2	19521.2
57°	5574.6	5667.5	6377.9	7883.6	10275.3	14085.9	19676.6	24593.3	27029.4	26916.4	20027.8
57.5°	5203.2	5207.3	5899.6	7268.0	9722.3	13413.8	19277.0	24314.7	27025.3	26962.8	20110.6
60°	3203.1	3304.0	3782.3	4912.6	7116.6	10469.0	16598.7	22714.2	26815.4	26906.3	20463.8
62.5°	1917.4	1959.8	2270.6	2960.9	4587.6	7641.4	13583.3	20665.6	26268.5	26545.0	20439.6
65°	1233.2	1243.3	1384.6	1792.3	2868.0	5164.9	10467.0	17959.0	24853.6	25362.2	19640.3
67.5°	952.6	968.8	1025.3	1176.7	1663.1	3217.2	7403.2	15070.8	22564.8	23220.8	17702.7
70°	845.7	853.8	873.9	922.4	1100.0	1816.5	4605.8	11772.9	18711.9	18897.6	13853.8
72.5°	690.3	712.5	775.0	791.2	871.9	1134.3	2563.3	7901.7	12572.1	12618.6	7750.4
75°	534.9	538.9	631.7	678.2	734.7	781.1	1144.4	3984.2	6038.8	5715.9	2987.1
77.5°	399.6	417.8	460.2	518.7	599.4	559.1	512.7	1501.6	1875.0	1840.7	867.9
80°	256.3	266.4	320.9	389.5	466.2	365.3	288.6	440.0	411.7	423.8	207.9
82.5°	129.2	131.2	205.9	316.9	296.7	183.7	181.6	179.6	153.4	151.4	96.9
85°	14.1	30.3	133.2	181.6	133.2	60.5	84.8	82.8	80.7	82.8	56.5
87.5°	2.0	2.0	22.2	26.2	18.2	20.2	24.2	26.2	32.3	30.3	24.2
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°	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2
2.5°	2520.9	2440.2	2290.8	2147.5	2040.5	1971.9	1883.1	1850.8	1804.4	1798.3	1776.1
5°	2629.9	2476.5	2216.1	2010.2	1844.7	1719.6	1610.6	1519.8	1447.1	1431.0	1439.1
7.5°	2785.3	2557.2	2193.9	1913.4	1683.3	1469.3	1295.8	1188.8	1112.1	1083.8	1087.9
10°	2960.9	2664.2	2189.9	1810.4	1459.2	1196.9	1007.1	912.3	867.9	851.7	833.6
12.5°	3168.8	2787.3	2179.8	1651.0	1213.0	954.7	819.4	762.9	720.5	708.4	708.4
15°	3402.9	2918.5	2131.3	1453.2	984.9	789.2	698.3	653.9	639.8	627.7	627.7
17.5°	3647.1	3047.7	2030.4	1209.0	817.4	676.1	619.6	593.4	573.2	559.1	559.1
20°	3925.6	3174.8	1869.0	993.0	690.3	603.5	559.1	528.8	512.7	500.5	496.5
22.5°	4190.0	3277.8	1663.1	815.4	601.5	542.9	502.6	470.3	454.1	448.1	448.1
25°	4464.5	3340.3	1414.8	674.1	549.0	492.5	448.1	421.8	407.7	403.7	401.6
27.5°	4730.9	3376.7	1196.9	589.4	500.5	446.0	403.7	383.5	369.4	365.3	367.3
30°	5053.9	3382.7	984.9	528.8	458.2	401.6	363.3	345.1	337.1	333.0	331.0
32.5°	5380.8	3374.6	827.5	492.5	417.8	363.3	331.0	316.9	310.8	304.8	304.8
35°	5748.2	3332.3	704.4	456.1	379.4	331.0	302.7	290.6	282.6	276.5	274.5
37.5°	6204.3	3310.0	633.8	415.8	345.1	300.7	274.5	262.4	256.3	248.3	246.2
40°	6922.8	3408.9	611.6	379.4	310.8	272.5	248.3	234.1	226.1	218.0	216.0
42.5°	7819.0	3582.5	575.2	343.1	280.5	246.2	222.0	205.9	191.7	181.6	177.6
45°	8979.5	3810.6	518.7	304.8	254.3	218.0	195.8	175.6	157.4	149.4	147.3
47.5°	10196.6	4030.6	468.3	274.5	226.1	193.8	169.5	147.3	131.2	125.1	123.1
50°	10943.3	4075.0	436.0	240.2	197.8	167.5	143.3	123.1	113.0	107.0	107.0
52.5°	11284.4	4004.4	391.6	209.9	171.6	147.3	123.1	107.0	100.9	96.9	94.9
55°	11522.6	3895.4	333.0	181.6	147.3	125.1	109.0	96.9	88.8	84.8	82.8
57°	11661.9	3748.0	288.6	159.4	127.2	109.0	96.9	86.8	78.7	70.6	70.6
57.5°	11667.9	3691.5	276.5	157.4	121.1	105.0	94.9	84.8	74.7	66.6	64.6
60°	11488.3	3304.0	222.0	133.2	96.9	88.8	78.7	66.6	52.5	44.4	42.4
62.5°	10911.1	2811.5	183.7	113.0	78.7	68.6	56.5	50.5	36.3	26.2	26.2
65°	10037.1	2280.7	157.4	90.8	64.6	50.5	38.3	36.3	22.2	12.1	10.1
67.5°	8773.6	1776.1	133.2	74.7	54.5	36.3	26.2	24.2	12.1	4.0	0.0
70°	6684.7	1211.0	111.0	60.5	40.4	26.2	18.2	14.1	8.1	2.0	0.0
72.5°	3853.0	666.0	92.8	46.4	30.3	20.2	14.1	8.1	8.1	0.0	0.0
75°	1376.5	286.6	70.6	34.3	24.2	16.1	10.1	4.0	6.1	2.0	0.0
77.5°	438.0	153.4	46.4	26.2	20.2	12.1	8.1	4.0	4.0	2.0	0.0
80°	129.2	80.7	28.3	22.2	14.1	10.1	6.1	2.0	4.0	2.0	0.0
82.5°	70.6	40.4	22.2	16.1	14.1	8.1	6.1	2.0	2.0	2.0	0.0
85°	36.3	24.2	18.2	16.1	14.1	8.1	6.1	2.0	0.0	2.0	2.0
87.5°	20.2	18.2	18.2	16.1	14.1	10.1	6.1	2.0	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)