

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: P458271

Luminaire Tested: **GALN-SA9C-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458271
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-SA9C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA 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: 40549 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: B2 - U0 - G4

Input Watts (W): 481
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

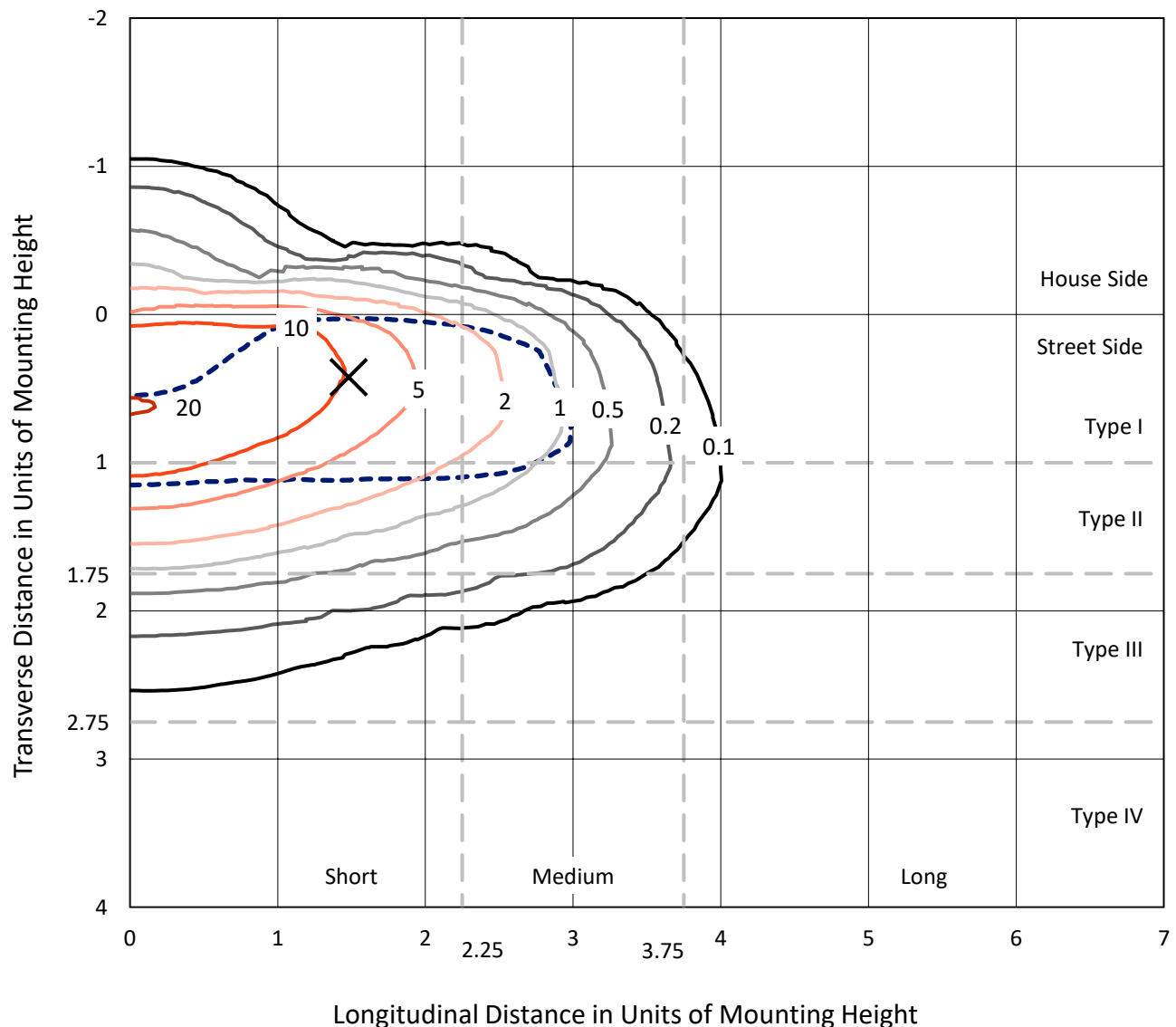


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

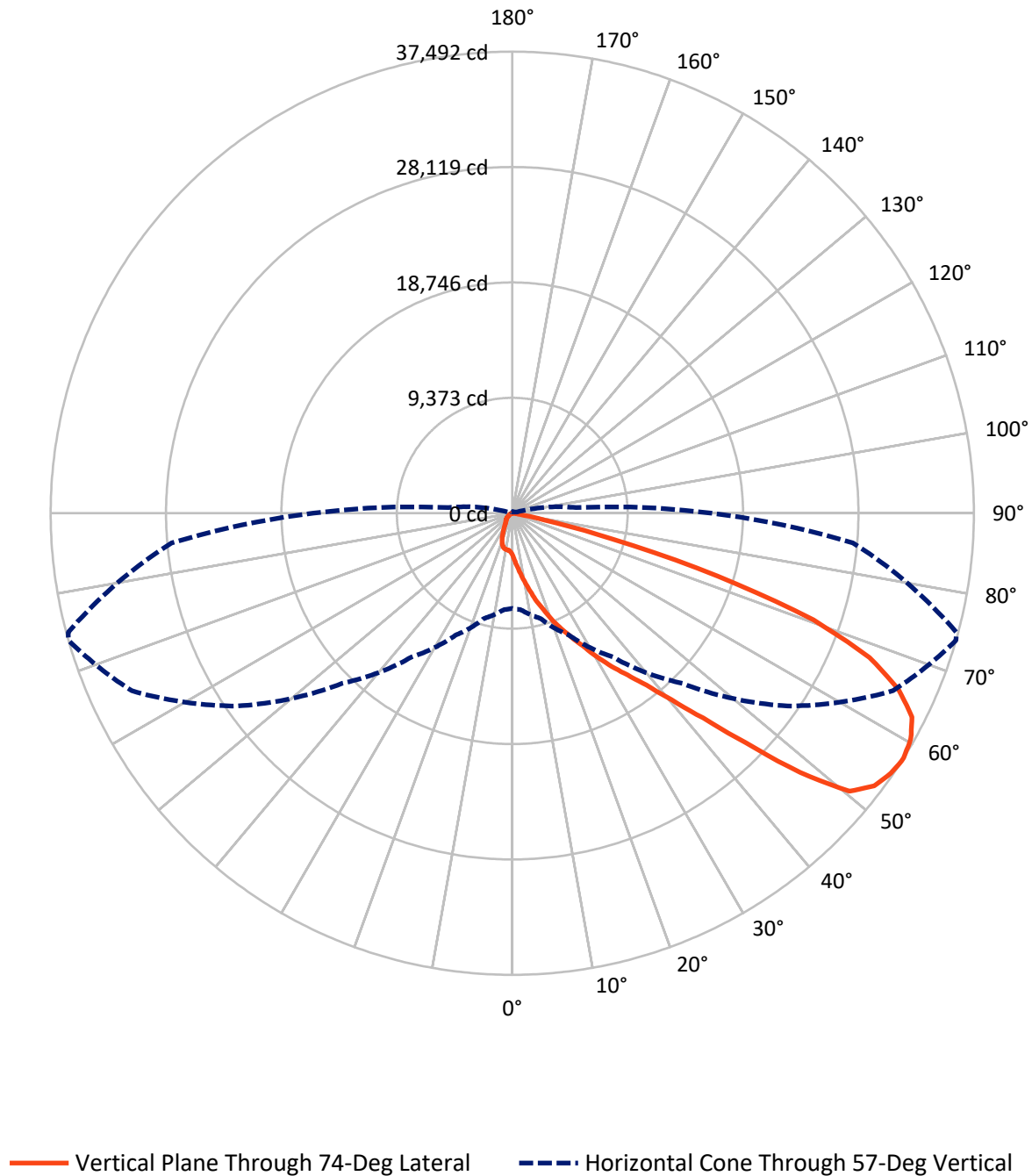


Based on 25 foot mounting height. Maximum calculated value = 20.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2338.8	0.0	2338.8
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	38210.3	0.0	38210.3
	% Fixture	94.2	0.0	94.2
Total	Lumens	40549.0	0.0	40549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.9	1.0
10°-20°	1615.6	4.0
20°-30°	3457.1	8.5
30°-40°	6354.1	15.7
40°-50°	9740.9	24.0
50°-60°	10304.6	25.4
60°-70°	6729.2	16.6
70°-80°	1838.6	4.5
80°-90°	99.0	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°	40549.0	100.0
0°-180°	40549.0	100.0

Coefficient of Utilization



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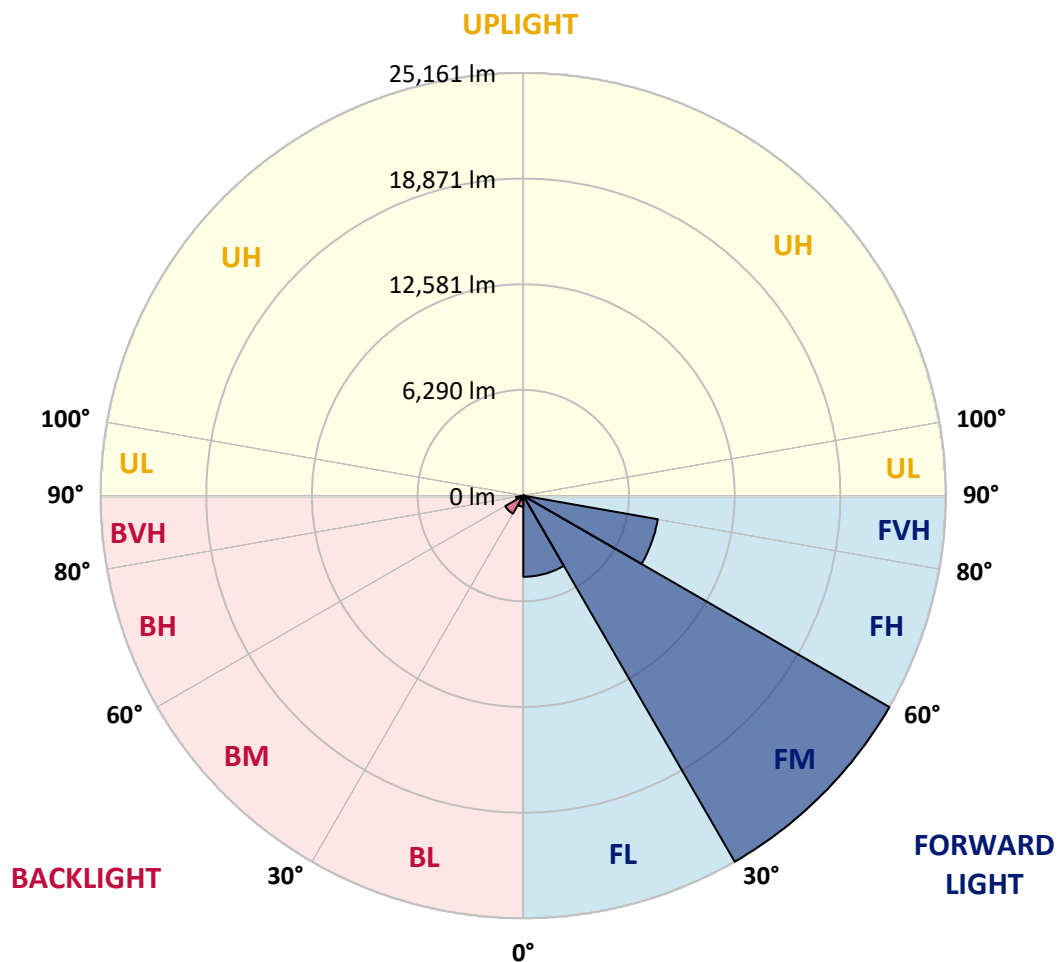
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4829.3	11.9			
FM	(30°-60°)	25161.4	62.1			
FH	(60°-80°)	8128.7	20.0			G4/12000
FVH	(80°-90°)	90.8	0.2			G1/100
BL	(0°-30°)	653.3	1.6	B2/1000		
BM	(30°-60°)	1238.2	3.1	B2/2500		
BH	(60°-80°)	439.1	1.1	B1/500		G1/500
BVH	(80°-90°)	8.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3395.9	3395.9	3395.9	3395.9	3395.9	3395.9	3395.9	3395.9	3395.9	3395.9	3395.9
2.5°	4969.3	4924.5	4834.9	4804.1	4672.5	4468.2	4289.0	4048.2	3857.9	3838.3	3608.7
5°	6654.7	6553.9	6511.9	6310.3	5994.0	5697.2	5187.7	4801.3	4356.2	4322.6	3860.7
7.5°	8278.4	8138.5	8096.5	7906.1	7536.5	7069.0	6408.3	5705.6	5000.1	4935.7	4199.4
10°	9454.3	9473.9	9398.3	9272.3	8972.7	8496.8	7682.1	6721.9	5716.8	5635.6	4580.2
12.5°	10297.0	10294.2	10308.2	10305.4	10145.8	9784.6	8928.0	7822.1	6506.3	6346.7	5016.9
15°	10845.7	10854.1	10896.1	11041.7	11058.5	10834.5	10120.6	8874.8	7421.8	7223.0	5490.0
17.5°	11400.0	11458.8	11526.0	11663.2	11786.4	11696.8	11192.8	9972.2	8250.4	8102.1	5996.8
20°	12315.5	12396.7	12357.5	12441.5	12505.9	12514.3	12125.1	10985.7	9255.5	9006.3	6576.3
22.5°	13779.7	13776.9	13676.1	13524.9	13398.9	13393.3	13040.6	12027.1	10168.2	9927.4	7158.6
25°	15630.2	15638.6	15442.6	15011.5	14697.9	14314.4	13908.5	12939.8	11145.2	10848.5	7771.7
27.5°	17752.3	17699.1	17402.4	16808.9	16187.3	15532.2	14947.1	14000.8	12181.1	11934.7	8474.4
30°	19658.9	19639.3	19292.1	18567.0	17749.5	17091.6	16243.3	15330.7	13522.1	13219.8	9261.1
32.5°	21433.8	21461.8	20980.3	20230.0	19440.5	18681.8	17785.9	16601.7	14837.9	14409.6	10117.8
35°	22819.6	22847.6	22349.3	21725.0	20913.1	20283.2	19429.3	17956.7	16136.9	15775.8	11103.3
37.5°	23558.7	23595.1	23306.7	22836.4	22329.7	22013.3	21218.2	19700.8	17715.9	17497.6	12267.9
40°	23698.7	23740.7	23614.7	23488.7	23460.7	23687.5	23455.1	21755.8	19905.2	19563.7	14003.6
42.5°	23278.8	23334.7	23390.7	23670.7	24241.8	25073.3	25882.4	24544.2	22724.4	22265.3	16125.7
45°	22175.7	22170.1	22391.3	23116.4	24395.8	26170.7	28418.8	28035.3	26565.5	26019.6	19124.1
47.5°	20288.8	20260.8	20739.5	21772.6	23765.9	26372.3	30487.7	32273.9	31467.6	30963.7	22346.5
50°	17413.6	17550.7	18303.8	19745.6	22200.9	25762.0	31126.1	35053.9	35490.6	34955.9	24950.1
52.5°	14045.6	14040.0	15221.5	17178.4	19882.8	24418.2	30680.9	35557.8	36798.1	36389.3	26232.3
55°	10394.9	10467.7	11696.8	13670.5	16873.2	21965.7	29227.9	35039.9	37296.4	37008.0	27077.8
57°	7732.5	7861.3	8846.8	10935.3	14252.8	19538.5	27293.4	34113.2	37492.4	37335.6	27780.5
57.5°	7217.4	7223.0	8183.3	10081.4	13485.7	18606.2	26739.1	33726.9	37486.8	37400.0	27895.3
60°	4443.0	4583.0	5246.5	6814.2	9871.4	14521.6	23024.0	31506.8	37195.6	37321.6	28385.2
62.5°	2659.6	2718.4	3149.6	4107.0	6363.5	10599.3	18841.4	28665.2	36436.9	36820.5	28351.6
65°	1710.6	1724.6	1920.5	2486.1	3978.2	7164.2	14518.8	24910.9	34474.4	35179.9	27243.0
67.5°	1321.4	1343.8	1422.2	1632.2	2306.9	4462.6	10269.0	20904.7	31299.6	32209.5	24555.4
70°	1173.0	1184.2	1212.2	1279.4	1525.8	2519.6	6388.7	16330.1	25955.2	26212.7	19216.5
72.5°	957.5	988.3	1075.0	1097.4	1209.4	1573.4	3555.5	10960.5	17438.8	17503.2	10750.5
75°	741.9	747.5	876.3	940.7	1019.1	1083.4	1587.4	5526.4	8376.4	7928.5	4143.4
77.5°	554.3	579.5	638.3	719.5	831.5	775.5	711.1	2082.9	2600.8	2553.2	1203.8
80°	355.6	369.5	445.1	540.3	646.7	506.7	400.3	610.3	571.1	587.9	288.4
82.5°	179.2	182.0	285.6	439.5	411.5	254.8	252.0	249.2	212.8	210.0	134.4
85°	19.6	42.0	184.8	252.0	184.8	84.0	117.6	114.8	112.0	114.8	78.4
87.5°	2.8	2.8	30.8	36.4	25.2	28.0	33.6	36.4	44.8	42.0	33.6
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°	3395.9	3395.9	3395.9	3395.9	3395.9	3395.9	3395.9	3395.9	3395.9	3395.9	3395.9
2.5°	3496.7	3384.7	3177.6	2978.8	2830.4	2735.2	2612.0	2567.2	2502.9	2494.5	2463.7
5°	3647.9	3435.1	3074.0	2788.4	2558.8	2385.3	2234.1	2108.1	2007.3	1984.9	1996.1
7.5°	3863.5	3547.1	3043.2	2654.0	2334.9	2038.1	1797.3	1649.0	1542.6	1503.4	1509.0
10°	4107.0	3695.5	3037.6	2511.2	2024.1	1660.2	1397.0	1265.4	1203.8	1181.4	1156.2
12.5°	4395.4	3866.3	3023.6	2290.1	1682.6	1324.2	1136.6	1058.3	999.5	982.7	982.7
15°	4720.1	4048.2	2956.4	2015.7	1366.2	1094.6	968.7	907.1	887.5	870.7	870.7
17.5°	5058.9	4227.4	2816.4	1677.0	1133.8	937.9	859.5	823.1	795.1	775.5	775.5
20°	5445.2	4403.8	2592.4	1377.4	957.5	837.1	775.5	733.5	711.1	694.3	688.7
22.5°	5812.0	4546.6	2306.9	1131.0	834.3	753.1	697.1	652.3	629.9	621.5	621.5
25°	6192.7	4633.4	1962.5	935.1	761.5	683.1	621.5	585.1	565.5	559.9	557.1
27.5°	6562.3	4683.7	1660.2	817.5	694.3	618.7	559.9	531.9	512.3	506.7	509.5
30°	7010.2	4692.1	1366.2	733.5	635.5	557.1	503.9	478.7	467.5	461.9	459.1
32.5°	7463.8	4680.9	1147.8	683.1	579.5	503.9	459.1	439.5	431.1	422.7	422.7
35°	7973.3	4622.2	977.1	632.7	526.3	459.1	419.9	403.1	391.9	383.5	380.7
37.5°	8606.0	4591.4	879.1	576.7	478.7	417.1	380.7	363.9	355.6	344.4	341.6
40°	9602.7	4728.5	848.3	526.3	431.1	377.9	344.4	324.8	313.6	302.4	299.6
42.5°	10845.7	4969.3	797.9	475.9	389.1	341.6	308.0	285.6	266.0	252.0	246.4
45°	12455.5	5285.7	719.5	422.7	352.8	302.4	271.6	243.6	218.4	207.2	204.4
47.5°	14143.6	5590.8	649.5	380.7	313.6	268.8	235.2	204.4	182.0	173.6	170.8
50°	15179.5	5652.4	604.7	333.2	274.4	232.4	198.8	170.8	156.8	148.4	148.4
52.5°	15652.6	5554.4	543.1	291.2	238.0	204.4	170.8	148.4	140.0	134.4	131.6
55°	15983.0	5403.2	461.9	252.0	204.4	173.6	151.2	134.4	123.2	117.6	114.8
57°	16176.1	5198.9	400.3	221.2	176.4	151.2	134.4	120.4	109.2	98.0	98.0
57.5°	16184.5	5120.5	383.5	218.4	168.0	145.6	131.6	117.6	103.6	92.4	89.6
60°	15935.4	4583.0	308.0	184.8	134.4	123.2	109.2	92.4	72.8	61.6	58.8
62.5°	15134.7	3899.9	254.8	156.8	109.2	95.2	78.4	70.0	50.4	36.4	36.4
65°	13922.5	3163.6	218.4	126.0	89.6	70.0	53.2	50.4	30.8	16.8	14.0
67.5°	12169.9	2463.7	184.8	103.6	75.6	50.4	36.4	33.6	16.8	5.6	0.0
70°	9272.3	1679.8	154.0	84.0	56.0	36.4	25.2	19.6	11.2	2.8	0.0
72.5°	5344.5	923.9	128.8	64.4	42.0	28.0	19.6	11.2	11.2	0.0	0.0
75°	1909.3	397.5	98.0	47.6	33.6	22.4	14.0	5.6	8.4	2.8	0.0
77.5°	607.5	212.8	64.4	36.4	28.0	16.8	11.2	5.6	5.6	2.8	0.0
80°	179.2	112.0	39.2	30.8	19.6	14.0	8.4	2.8	5.6	2.8	0.0
82.5°	98.0	56.0	30.8	22.4	19.6	11.2	8.4	2.8	2.8	2.8	0.0
85°	50.4	33.6	25.2	22.4	19.6	11.2	8.4	2.8	0.0	2.8	2.8
87.5°	28.0	25.2	25.2	22.4	19.6	14.0	8.4	2.8	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)