

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: P459555

Luminaire Tested: **GALN-SA9D-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47260 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

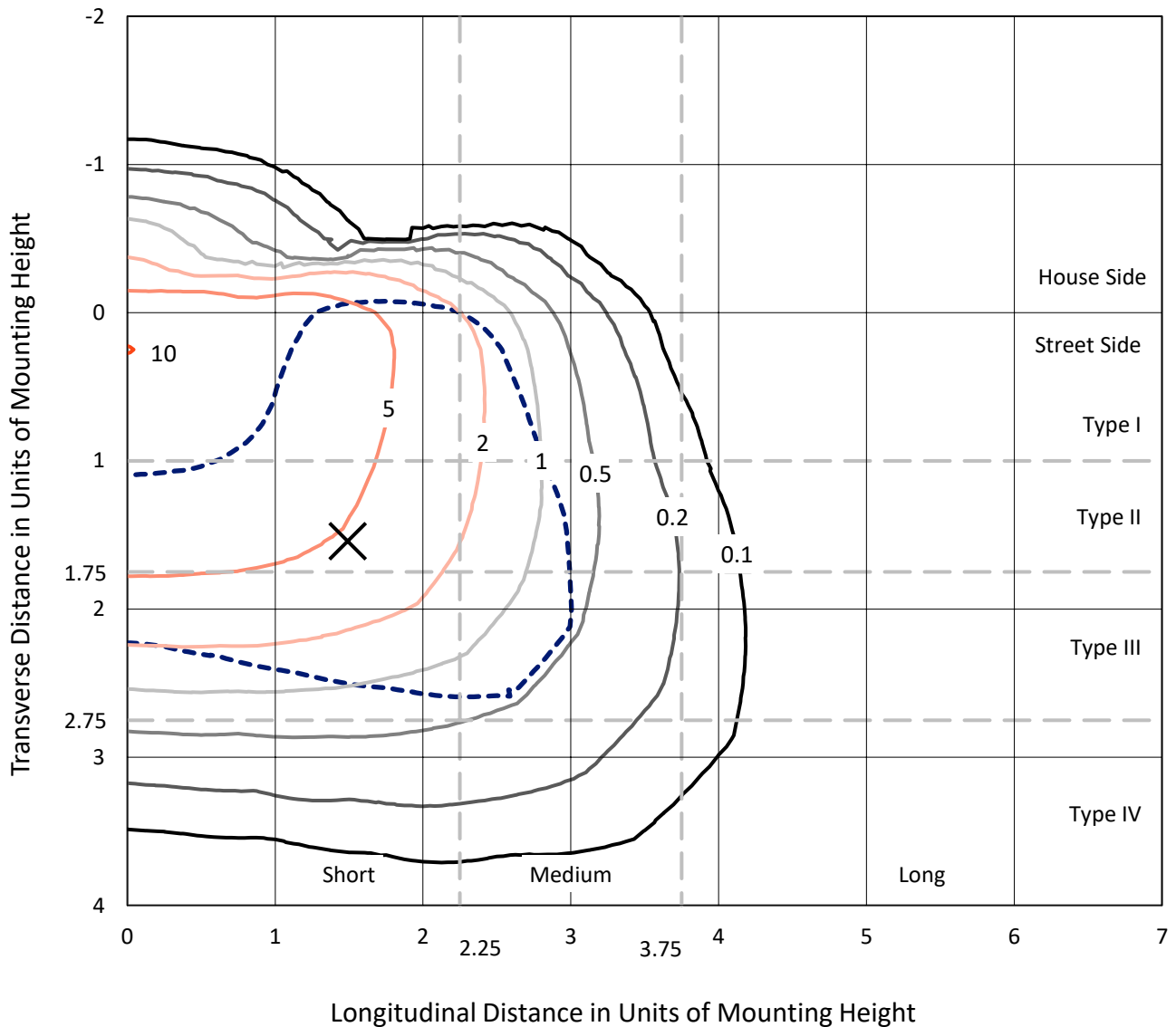
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

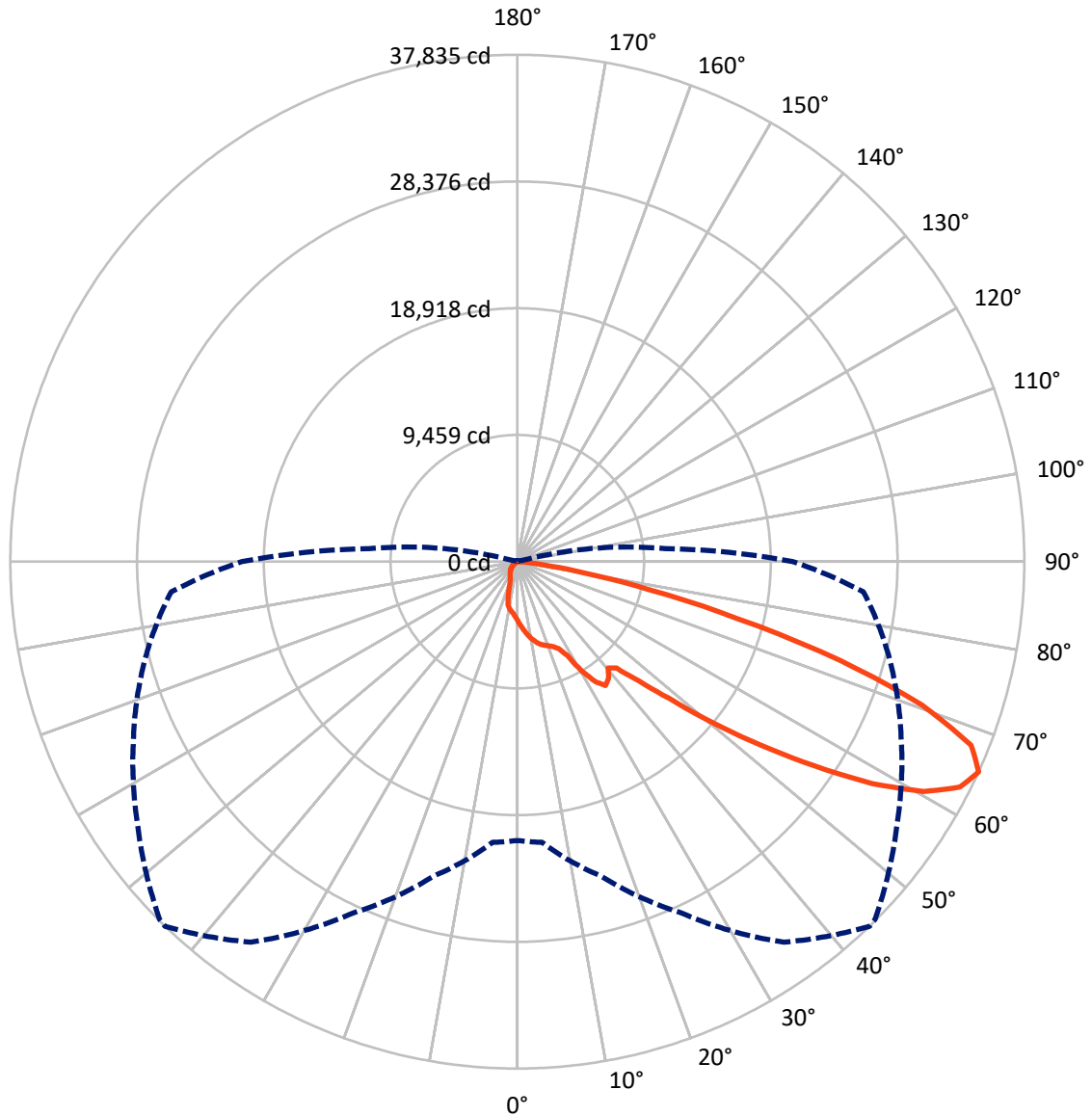
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - N/A

REPORT NUMBER: P459555
CATALOG NUMBER: GALN-SA9D-735-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4354.3	0.0	4354.3
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	42905.7	0.0	42905.7
	% Fixture	90.8	0.0	90.8
Total	Lumens	47260.0	0.0	47260.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.5	0.9
10°-20°	1316.7	2.8
20°-30°	2232.6	4.7
30°-40°	3712.0	7.9
40°-50°	6481.3	13.7
50°-60°	12662.2	26.8
60°-70°	14691.1	31.1
70°-80°	5349.8	11.3
80°-90°	376.9	0.8
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°	47260.0	100.0
0°-180°	47260.0	100.0

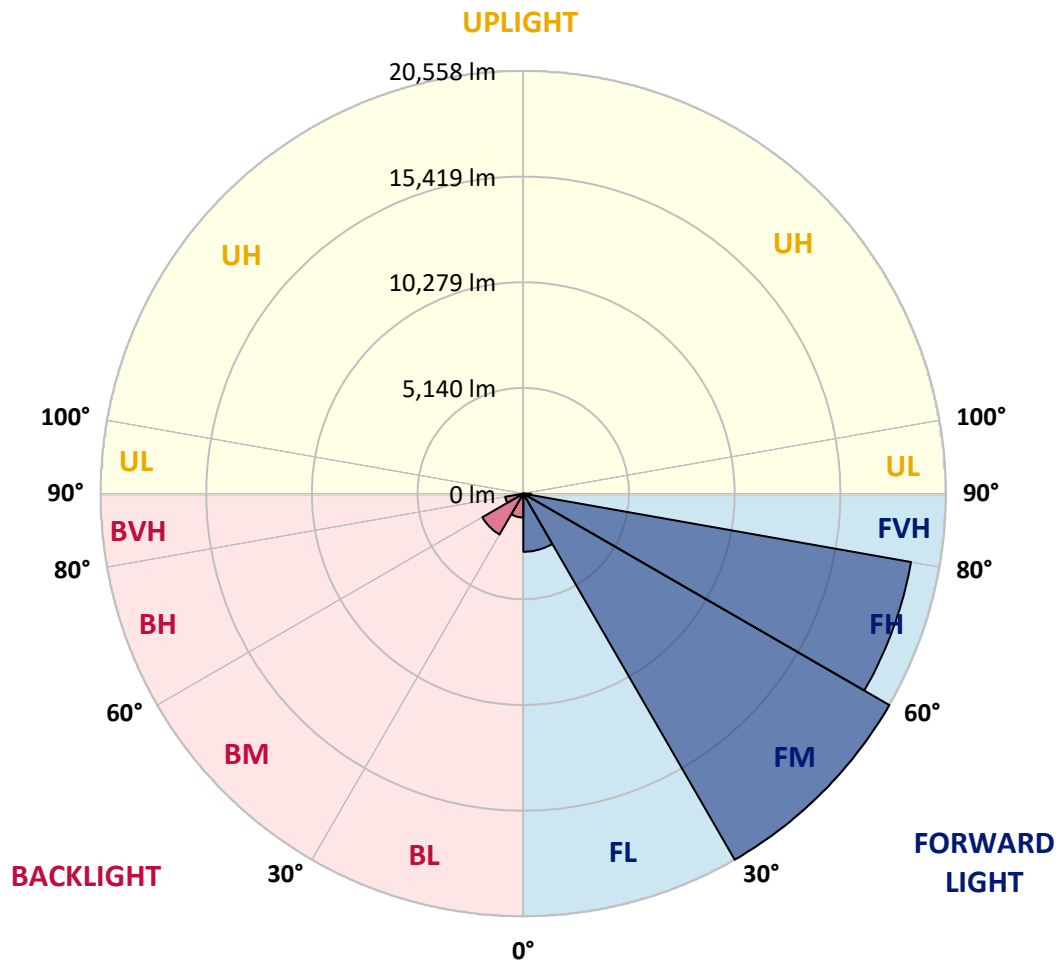


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2826.6	6.0			
FM (30°-60°)	20558.2	43.5			
FH (60°-80°)	19149.1	40.5			G5
FVH (80°-90°)	371.8	0.8			G3/500
BL (0°-30°)	1160.1	2.5	B3/2500		
BM (30°-60°)	2297.3	4.9	B2/2500		
BH (60°-80°)	891.7	1.9	B2/1000		G2/1000
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: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4398.5	4398.5	4398.5	4398.5	4398.5	4398.5	4398.5	4398.5	4398.5	4398.5	4398.5
2.5°	4951.0	4929.3	4918.5	4860.7	4817.4	4763.2	4763.2	4694.6	4615.2	4528.5	4449.1
5°	5503.5	5467.4	5420.5	5369.9	5268.8	5124.4	5124.4	4979.9	4813.8	4665.7	4503.2
7.5°	6034.4	6001.9	5922.4	5824.9	5658.8	5507.1	5496.3	5286.9	5088.2	4864.3	4633.2
10°	6500.2	6475.0	6406.3	6218.6	6045.2	5846.6	5843.0	5608.3	5377.1	5102.7	4817.4
12.5°	6825.3	6828.9	6738.6	6558.0	6334.1	6146.3	6131.9	5900.8	5658.8	5362.7	5012.4
15°	7056.4	7056.4	6962.5	6760.3	6558.0	6391.9	6377.5	6175.2	5926.1	5604.7	5225.5
17.5°	7121.4	7143.0	7041.9	6861.4	6698.9	6554.4	6550.8	6381.1	6182.5	5871.9	5442.1
20°	7096.1	7117.8	7038.3	6897.5	6785.5	6702.5	6691.6	6623.0	6438.9	6146.3	5673.3
22.5°	7041.9	7063.6	7005.8	6922.8	6868.6	6893.9	6875.8	6933.6	6836.1	6482.2	5947.7
25°	7052.8	7074.4	7031.1	6984.1	7031.1	7186.4	7233.3	7482.5	7395.8	6908.3	6243.8
27.5°	7392.2	7435.6	7374.2	7395.8	7561.9	7923.1	8013.4	8443.1	8060.3	7450.0	6706.1
30°	8147.0	8118.1	8002.5	8107.2	8685.0	9450.6	9425.3	9356.7	8757.3	8074.7	7255.0
32.5°	8833.1	8807.8	8800.6	9252.0	10299.3	10671.2	10653.2	9988.7	9382.0	8789.8	7796.7
35°	9111.2	9013.7	8992.0	10086.2	11837.7	11346.5	11234.6	10248.7	10140.4	9569.8	8349.2
37.5°	9949.0	9880.4	9544.5	10223.4	11223.7	11061.2	10974.6	10696.5	10949.3	10259.5	8973.9
40°	11675.2	11483.8	11180.4	10515.9	10353.4	10422.1	10508.7	11270.7	11906.3	11202.1	9808.1
42.5°	13820.2	13776.9	13213.5	11974.9	10757.9	10851.8	10963.7	12469.6	13282.2	12621.3	11169.6
45°	16395.1	16456.4	15643.9	14181.4	12585.2	12664.6	12827.1	14239.1	15145.6	14827.8	13311.0
47.5°	18735.1	18688.2	18413.7	16893.4	15420.0	15243.1	15506.7	16510.6	17724.0	17774.5	15968.9
50°	21089.7	21338.8	20930.8	20334.9	19240.7	18868.8	18771.3	19262.4	21111.3	20869.4	19161.3
52.5°	24473.4	24603.4	23837.8	23686.2	23935.3	22729.2	22631.7	22750.8	24404.8	23574.2	21551.9
55°	26600.4	26524.6	26239.3	27423.8	28409.7	26903.8	26781.0	26300.7	27138.5	25484.6	23852.3
57.5°	27272.1	27380.5	28044.9	30186.4	32519.3	31240.9	31017.0	29651.9	29110.2	27264.9	25968.5
60°	26972.4	27171.0	28604.7	31789.8	35025.5	34834.1	34642.7	32349.5	30525.9	28752.7	27452.7
62.5°	24838.1	25116.2	27409.4	31504.5	35874.1	37069.4	36831.1	34032.4	31468.4	29475.0	27712.7
65°	20815.2	21021.1	24314.5	28915.2	34668.0	37835.0	37748.3	34559.6	31616.5	28814.1	25932.4
67.5°	14838.6	15539.2	18590.7	24368.7	31100.0	36527.7	36675.8	33927.6	30226.1	25957.6	21476.1
70°	9327.8	9804.5	11992.9	17445.9	24932.0	32046.2	32533.7	31035.0	26232.1	20233.8	14376.4
72.5°	4449.1	4803.0	6363.0	11043.2	17597.6	25213.7	25600.1	25477.3	20284.4	12747.7	7417.5
75°	1982.6	2116.2	3037.1	5637.2	11361.0	16947.6	17947.9	18114.0	12675.5	6236.6	2885.4
77.5°	1011.1	1014.8	1422.8	2730.1	5673.3	10111.5	10310.1	10891.5	6872.2	2748.2	1003.9
80°	538.1	574.2	754.8	1289.2	2943.2	4979.9	4954.6	5445.8	3047.9	1347.0	335.8
82.5°	242.0	267.2	426.1	675.3	1437.3	1888.7	2036.7	2228.1	1307.3	859.5	148.1
85°	72.2	86.7	209.5	339.5	520.0	545.3	610.3	787.3	740.3	610.3	75.8
87.5°	10.8	10.8	86.7	93.9	75.8	97.5	101.1	111.9	238.3	223.9	39.7
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°	4398.5	4398.5	4398.5	4398.5	4398.5	4398.5	4398.5	4398.5	4398.5	4398.5	4398.5
2.5°	4405.7	4380.4	4290.2	4214.3	4149.3	4109.6	4062.7	4033.8	4019.3	4008.5	4012.1
5°	4423.8	4362.4	4207.1	4084.3	3990.4	3889.3	3820.7	3781.0	3762.9	3734.0	3734.0
7.5°	4524.9	4427.4	4210.7	4022.9	3860.4	3723.2	3593.2	3546.2	3513.7	3506.5	3499.3
10°	4669.3	4546.6	4250.4	3990.4	3759.3	3571.5	3387.3	3224.8	3098.4	3022.6	3011.8
12.5°	4849.9	4673.0	4311.8	3968.8	3672.6	3340.4	2852.9	2524.3	2304.0	2235.4	2246.2
15°	5016.0	4824.6	4373.2	3950.7	3513.7	2769.8	2217.3	1841.7	1729.8	1719.0	1722.6
17.5°	5214.6	4987.1	4445.4	3925.4	3076.8	2116.2	1646.7	1545.6	1567.3	1603.4	1599.8
20°	5420.5	5160.5	4532.1	3773.8	2455.6	1592.6	1455.3	1466.2	1498.7	1531.2	1538.4
22.5°	5640.8	5359.1	4633.2	3409.0	1874.2	1386.7	1379.5	1393.9	1426.4	1462.6	1469.8
25°	5944.1	5608.3	4709.1	2932.3	1419.2	1282.0	1296.4	1321.7	1350.6	1390.3	1397.6
27.5°	6334.1	5944.1	4748.8	2311.2	1227.8	1188.1	1191.7	1227.8	1263.9	1300.0	1300.0
30°	6839.7	6345.0	4669.3	1747.8	1133.9	1097.8	1083.4	1105.0	1152.0	1188.1	1191.7
32.5°	7291.1	6724.1	4459.9	1336.2	1065.3	1014.8	978.6	982.3	1000.3	1022.0	1025.6
35°	7742.5	7092.5	4102.4	1123.1	993.1	935.3	881.1	852.3	837.8	827.0	837.8
37.5°	8320.3	7551.1	3625.7	1022.0	931.7	859.5	783.6	722.2	671.7	639.2	646.4
40°	9064.2	8186.7	3062.3	957.0	873.9	787.3	686.1	606.7	520.0	491.1	476.7
42.5°	10292.0	9150.9	2470.1	902.8	816.1	711.4	585.0	476.7	397.2	368.3	375.6
45°	12231.3	10367.9	1903.1	845.0	758.4	628.4	491.1	375.6	310.6	296.1	303.3
47.5°	14802.5	11942.4	1466.2	780.0	686.1	538.1	386.4	296.1	256.4	252.8	249.2
50°	17222.0	13408.6	1224.2	707.8	599.5	447.8	317.8	249.2	223.9	220.3	220.3
52.5°	19410.4	14459.4	996.7	624.7	505.6	368.3	267.2	220.3	198.6	187.8	187.8
55°	21356.9	15145.6	808.9	523.6	397.2	292.5	231.1	198.6	173.3	158.9	155.3
57.5°	22826.7	15228.6	606.7	418.9	296.1	227.5	198.6	173.3	144.4	126.4	119.2
60°	23455.0	14510.0	447.8	317.8	220.3	180.6	158.9	140.8	108.3	90.3	86.7
62.5°	22823.1	13112.4	332.2	242.0	169.7	133.6	111.9	104.7	75.8	54.2	50.6
65°	20558.8	11093.7	263.6	184.2	126.4	97.5	72.2	68.6	46.9	25.3	21.7
67.5°	16470.9	8688.7	209.5	137.2	90.3	65.0	46.9	43.3	25.3	7.2	7.2
70°	10711.0	5554.1	169.7	101.1	57.8	43.3	28.9	21.7	14.4	3.6	0.0
72.5°	5297.7	2596.5	137.2	79.4	39.7	21.7	10.8	7.2	10.8	0.0	0.0
75°	2054.8	924.5	101.1	54.2	21.7	10.8	7.2	0.0	3.6	0.0	0.0
77.5°	682.5	307.0	61.4	28.9	14.4	7.2	0.0	0.0	0.0	0.0	0.0
80°	252.8	119.2	32.5	18.1	7.2	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	101.1	46.9	21.7	14.4	7.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.6	28.9	14.4	10.8	7.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	36.1	21.7	14.4	10.8	7.2	3.6	0.0	0.0	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)