

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: P457467

Luminaire Tested: **GALN-SA8D-740-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457467
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-SA8D-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 45189 lumens
Efficiency: N/A
Efficacy: 91.7 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

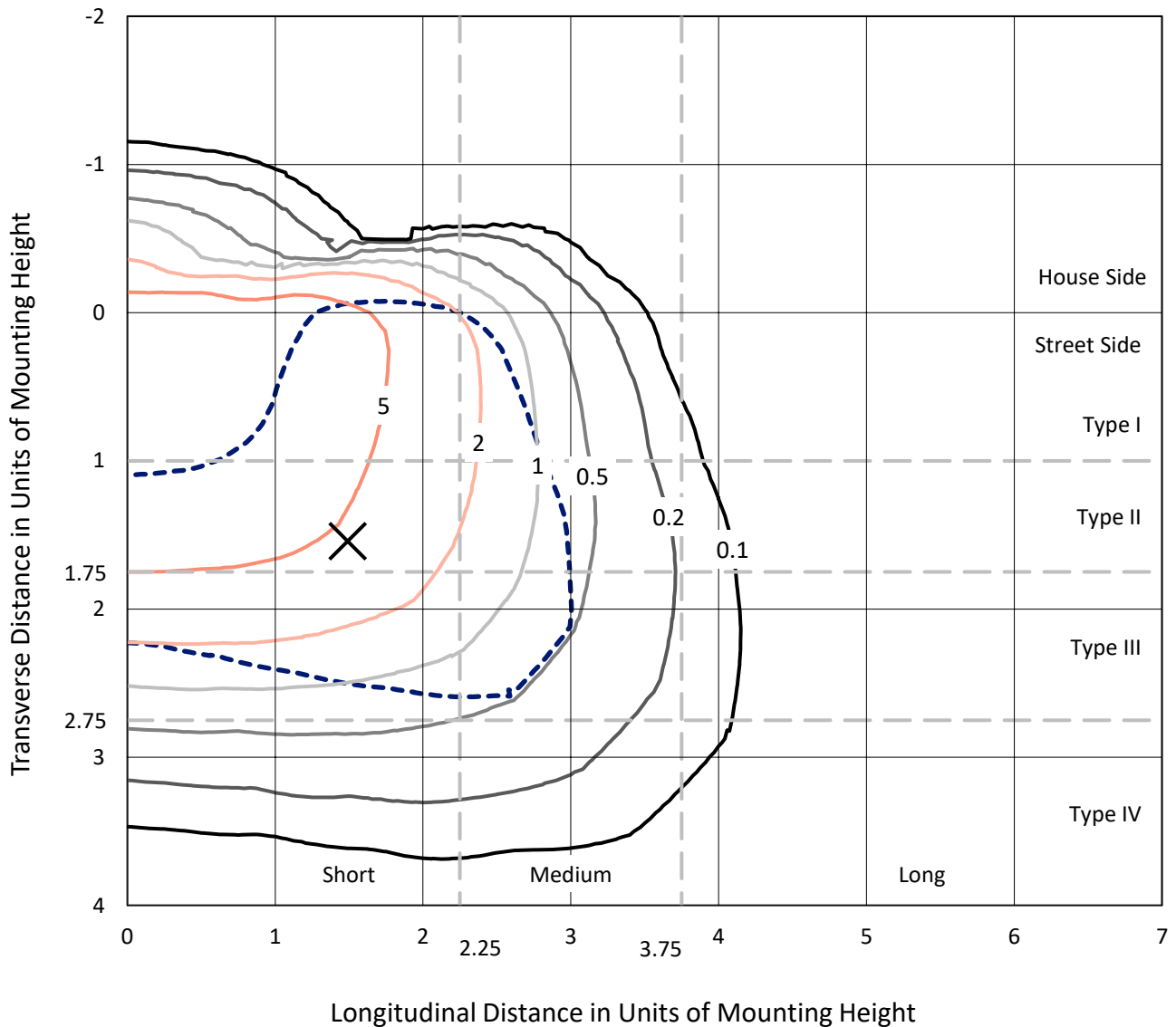
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

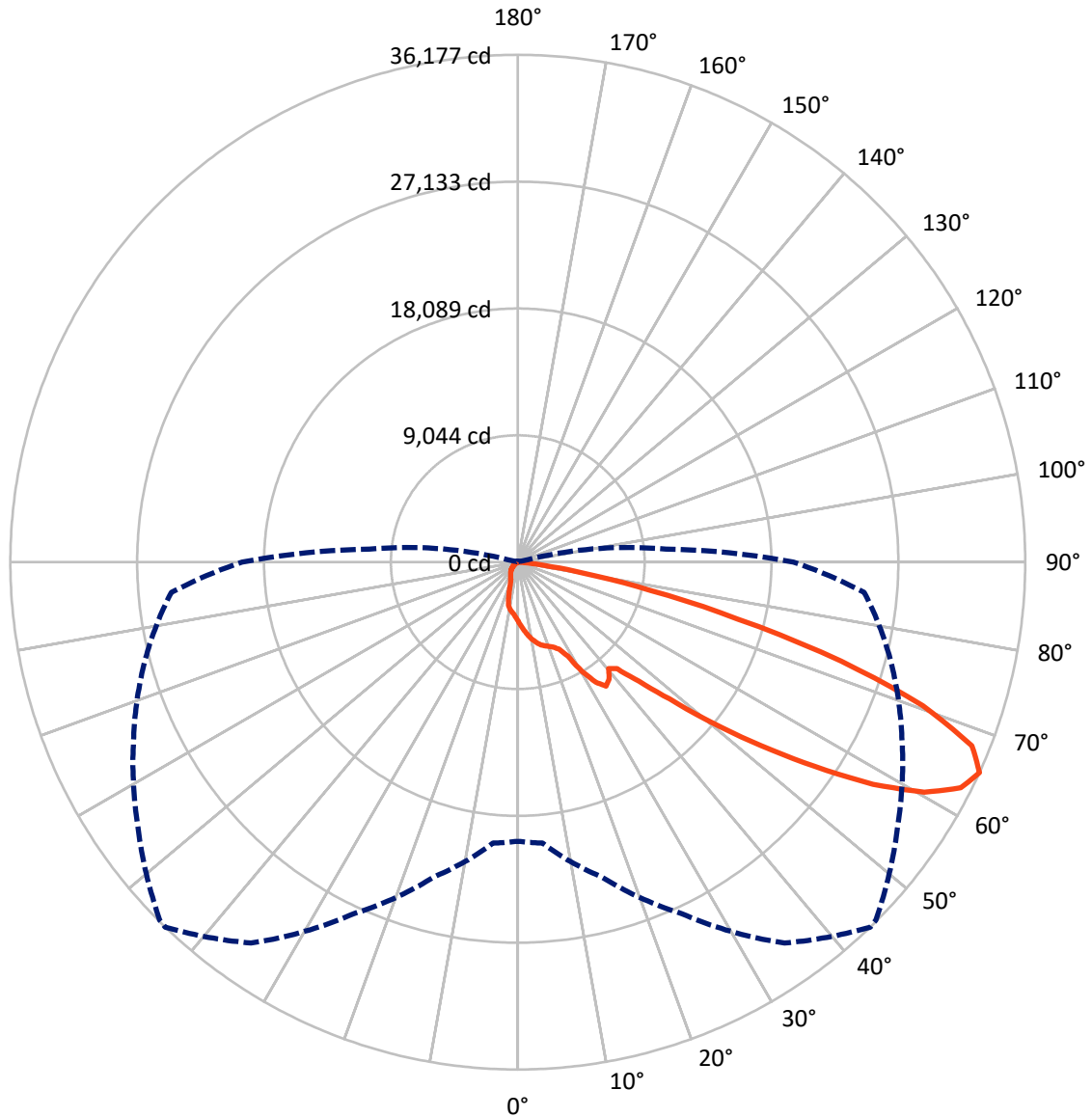
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Short - N/A

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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	4163.5	0.0	4163.5
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	41025.5	0.0	41025.5
	% Fixture	90.8	0.0	90.8
Total	Lumens	45189.0	0.0	45189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.3	0.9
10°-20°	1259.0	2.8
20°-30°	2134.7	4.7
30°-40°	3549.4	7.9
40°-50°	6197.3	13.7
50°-60°	12107.3	26.8
60°-70°	14047.3	31.1
70°-80°	5115.3	11.3
80°-90°	360.4	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°	45189.0	100.0
0°-180°	45189.0	100.0

Coefficient of Utilization



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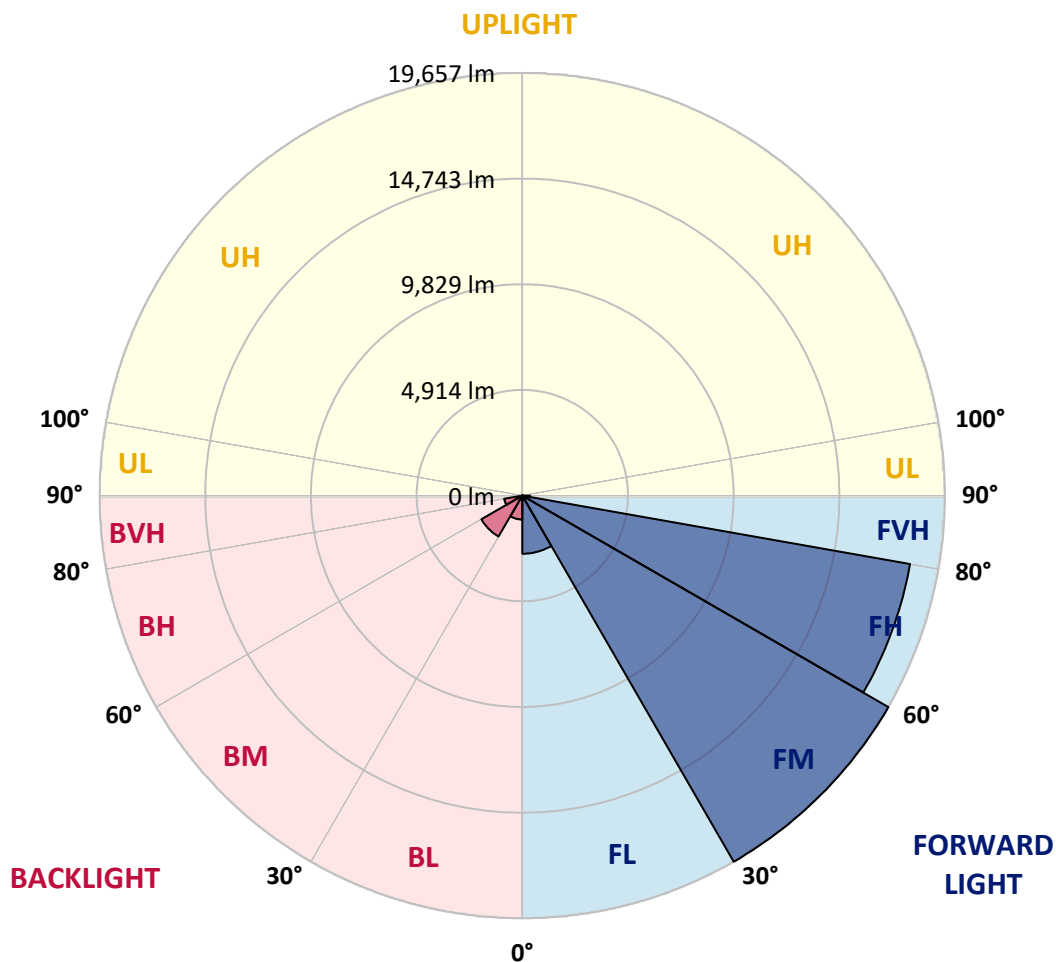
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2702.7	6.0			
FM	(30°-60°)	19657.3	43.5			
FH	(60°-80°)	18310.0	40.5			G5
FVH	(80°-90°)	355.5	0.8			G3/500
BL	(0°-30°)	1109.3	2.5	B3/2500		
BM	(30°-60°)	2196.7	4.9	B2/2500		
BH	(60°-80°)	852.6	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4205.7	4205.7	4205.7	4205.7	4205.7	4205.7	4205.7	4205.7	4205.7	4205.7	4205.7
2.5°	4734.1	4713.3	4703.0	4647.7	4606.3	4554.5	4554.5	4488.9	4412.9	4330.1	4254.1
5°	5262.4	5227.8	5182.9	5134.6	5037.9	4899.8	4899.8	4761.7	4602.8	4461.3	4305.9
7.5°	5770.0	5738.9	5662.9	5569.7	5410.8	5265.8	5255.5	5055.2	4865.3	4651.2	4430.2
10°	6215.4	6191.2	6125.6	5946.1	5780.3	5590.4	5586.9	5362.5	5141.5	4879.1	4606.3
12.5°	6526.2	6529.6	6443.3	6270.6	6056.6	5877.0	5863.2	5642.2	5410.8	5127.7	4792.8
15°	6747.2	6747.2	6657.4	6464.0	6270.6	6111.8	6098.0	5904.6	5666.4	5359.0	4996.5
17.5°	6809.3	6830.0	6733.3	6560.7	6405.3	6267.2	6263.7	6101.4	5911.5	5614.6	5203.7
20°	6785.1	6805.9	6729.9	6595.2	6488.2	6408.8	6398.4	6332.8	6156.7	5877.0	5424.7
22.5°	6733.3	6754.1	6698.8	6619.4	6567.6	6591.8	6574.5	6629.8	6536.5	6198.1	5687.1
25°	6743.7	6764.4	6723.0	6678.1	6723.0	6871.5	6916.3	7154.6	7071.7	6605.6	5970.2
27.5°	7068.3	7109.7	7051.0	7071.7	7230.6	7575.9	7662.2	8073.1	7707.1	7123.5	6412.2
30°	7790.0	7762.3	7651.8	7752.0	8304.5	9036.5	9012.3	8946.7	8373.5	7720.9	6937.1
32.5°	8446.0	8421.9	8414.9	8846.6	9847.9	10203.6	10186.3	9551.0	8970.9	8404.6	7455.0
35°	8711.9	8618.7	8598.0	9644.2	11318.9	10849.3	10742.3	9799.6	9696.0	9150.4	7983.3
37.5°	9513.0	9447.4	9126.3	9775.4	10731.9	10576.5	10493.7	10227.8	10469.5	9810.0	8580.7
40°	11163.5	10980.5	10690.5	10055.1	9899.7	9965.3	10048.2	10776.8	11384.5	10711.2	9378.3
42.5°	13214.6	13173.2	12634.5	11450.1	10286.5	10376.3	10483.3	11923.2	12700.1	12068.2	10680.1
45°	15676.6	15735.3	14958.4	13559.9	12033.7	12109.7	12265.0	13615.2	14481.9	14178.0	12727.7
47.5°	17914.1	17869.3	17606.8	16153.1	14744.3	14575.1	14827.2	15787.1	16947.3	16995.6	15269.1
50°	20165.5	20403.7	20013.6	19443.8	18397.6	18041.9	17948.7	18418.3	20186.2	19954.9	18321.6
52.5°	23400.9	23525.3	22793.2	22648.2	22886.5	21733.2	21639.9	21753.9	23335.3	22541.2	20607.5
55°	25434.8	25362.3	25089.5	26222.0	27164.7	25724.8	25607.4	25148.2	25949.3	24367.8	22807.0
57.5°	26077.0	26180.6	26816.0	28863.6	31094.2	29871.9	29657.8	28352.5	27834.6	26070.1	24830.5
60°	25790.4	25980.3	27351.2	30396.7	33490.6	33307.6	33124.6	30931.9	29188.2	27492.7	26249.7
62.5°	23749.7	24015.6	26208.2	30123.9	34302.1	35445.0	35217.1	32541.0	30089.4	28183.3	26498.3
65°	19903.1	20099.9	23249.0	27648.1	33148.8	36177.0	36094.2	33045.2	30231.0	27551.4	24796.0
67.5°	14188.4	14858.2	17776.0	23300.8	29737.2	34927.0	35068.6	32440.9	28901.6	24820.1	20535.0
70°	8919.1	9374.9	11467.4	16681.4	23839.5	30641.9	31108.0	29675.0	25082.6	19347.1	13746.4
72.5°	4254.1	4592.5	6084.2	10559.3	16826.4	24108.8	24478.3	24360.9	19395.5	12189.1	7092.5
75°	1895.7	2023.5	2904.0	5390.1	10863.1	16204.9	17161.4	17320.2	12120.0	5963.3	2758.9
77.5°	966.8	970.3	1360.5	2610.5	5424.7	9668.4	9858.3	10414.2	6571.1	2627.7	959.9
80°	514.5	549.0	721.7	1232.7	2814.2	4761.7	4737.5	5207.1	2914.3	1288.0	321.1
82.5°	231.4	255.5	407.5	645.7	1374.3	1805.9	1947.5	2130.5	1250.0	821.8	141.6
85°	69.1	82.9	200.3	324.6	497.2	521.4	583.6	752.8	707.9	583.6	72.5
87.5°	10.4	10.4	82.9	89.8	72.5	93.2	96.7	107.0	227.9	214.1	38.0
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°	4205.7	4205.7	4205.7	4205.7	4205.7	4205.7	4205.7	4205.7	4205.7	4205.7	4205.7
2.5°	4212.7	4188.5	4102.2	4029.6	3967.5	3929.5	3884.6	3857.0	3843.2	3832.8	3836.3
5°	4229.9	4171.2	4022.7	3905.3	3815.6	3718.9	3653.3	3615.3	3598.0	3570.4	3570.4
7.5°	4326.6	4233.4	4026.2	3846.6	3691.3	3560.0	3435.7	3390.8	3359.8	3352.9	3346.0
10°	4464.7	4347.3	4064.2	3815.6	3594.6	3415.0	3238.9	3083.5	2962.7	2890.2	2879.8
12.5°	4637.4	4468.2	4122.9	3794.8	3511.7	3194.0	2727.9	2413.6	2203.0	2137.4	2147.8
15°	4796.2	4613.2	4181.6	3777.6	3359.8	2648.4	2120.1	1761.0	1654.0	1643.6	1647.1
17.5°	4986.1	4768.6	4250.6	3753.4	2942.0	2023.5	1574.6	1477.9	1498.6	1533.1	1529.7
20°	5182.9	4934.3	4333.5	3608.4	2348.0	1522.8	1391.6	1401.9	1433.0	1464.1	1471.0
22.5°	5393.6	5124.2	4430.2	3259.6	1792.1	1326.0	1319.0	1332.9	1363.9	1398.5	1405.4
25°	5683.6	5362.5	4502.7	2803.8	1357.0	1225.8	1239.6	1263.8	1291.4	1329.4	1336.3
27.5°	6056.6	5683.6	4540.7	2209.9	1174.0	1136.0	1139.5	1174.0	1208.5	1243.1	1243.1
30°	6540.0	6066.9	4464.7	1671.2	1084.2	1049.7	1035.9	1056.6	1101.5	1136.0	1139.5
32.5°	6971.6	6429.5	4264.4	1277.6	1018.6	970.3	935.8	939.2	956.5	977.2	980.7
35°	7403.2	6781.7	3922.6	1073.9	949.6	894.3	842.5	814.9	801.1	790.7	801.1
37.5°	7955.7	7220.2	3466.8	977.2	890.9	821.8	749.3	690.6	642.3	611.2	618.1
40°	8667.0	7827.9	2928.1	915.0	835.6	752.8	656.1	580.1	497.2	469.6	455.8
42.5°	9841.0	8749.9	2361.8	863.2	780.4	680.2	559.4	455.8	379.8	352.2	359.1
45°	11695.3	9913.5	1819.7	808.0	725.1	600.8	469.6	359.1	297.0	283.1	290.1
47.5°	14153.8	11419.1	1401.9	745.8	656.1	514.5	369.5	283.1	245.2	241.7	238.3
50°	16467.3	12821.0	1170.6	676.8	573.2	428.2	303.9	238.3	214.1	210.6	210.6
52.5°	18559.8	13825.8	953.0	597.4	483.4	352.2	255.5	210.6	189.9	179.6	179.6
55°	20421.0	14481.9	773.5	500.7	379.8	279.7	221.0	189.9	165.7	151.9	148.5
57.5°	21826.4	14561.3	580.1	400.5	283.1	217.5	189.9	165.7	138.1	120.9	113.9
60°	22427.2	13874.1	428.2	303.9	210.6	172.6	151.9	134.7	103.6	86.3	82.9
62.5°	21822.9	12537.8	317.7	231.4	162.3	127.8	107.0	100.1	72.5	51.8	48.3
65°	19657.9	10607.6	252.1	176.1	120.9	93.2	69.1	65.6	44.9	24.2	20.7
67.5°	15749.1	8307.9	200.3	131.2	86.3	62.2	44.9	41.4	24.2	6.9	6.9
70°	10241.6	5310.7	162.3	96.7	55.2	41.4	27.6	20.7	13.8	3.5	0.0
72.5°	5065.5	2482.7	131.2	76.0	38.0	20.7	10.4	6.9	10.4	0.0	0.0
75°	1964.8	884.0	96.7	51.8	20.7	10.4	6.9	0.0	3.5	0.0	0.0
77.5°	652.6	293.5	58.7	27.6	13.8	6.9	0.0	0.0	0.0	0.0	0.0
80°	241.7	113.9	31.1	17.3	6.9	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	96.7	44.9	20.7	13.8	6.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	48.3	27.6	13.8	10.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	34.5	20.7	13.8	10.4	6.9	3.5	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)