

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: P457459

Luminaire Tested: **GALN-SA8D-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457459
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-SA8D-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA 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: 50013 lumens
Efficiency: N/A
Efficacy: 101.4 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

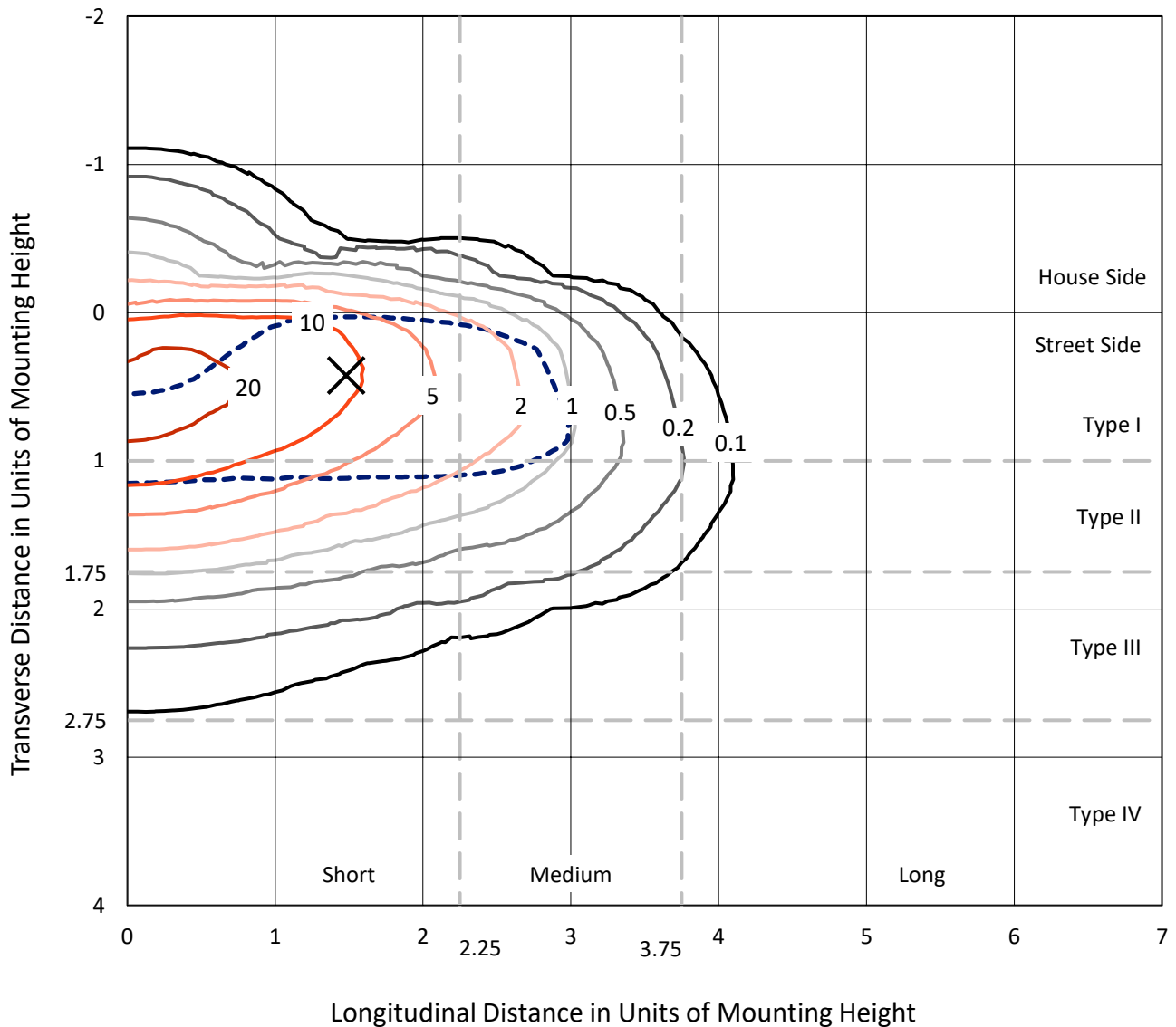
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

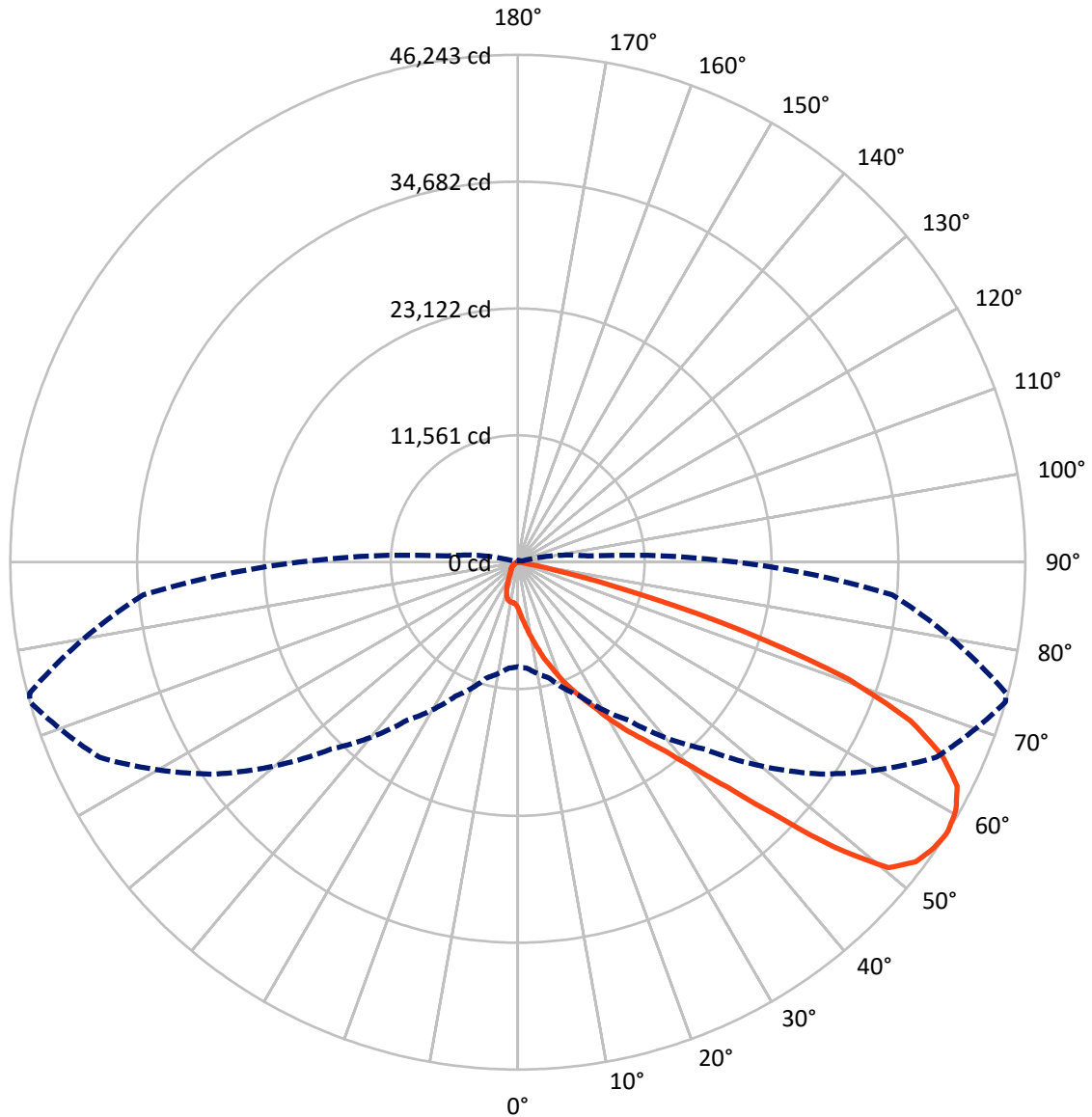
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2884.6	0.0	2884.6
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	47128.4	0.0	47128.4
	% Fixture	94.2	0.0	94.2
Total	Lumens	50013.0	0.0	50013.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.6	1.0
10°-20°	1992.7	4.0
20°-30°	4264.0	8.5
30°-40°	7837.1	15.7
40°-50°	12014.4	24.0
50°-60°	12709.6	25.4
60°-70°	8299.7	16.6
70°-80°	2267.8	4.5
80°-90°	122.1	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°	50013.0	100.0
0°-180°	50013.0	100.0

Coefficient of Utilization



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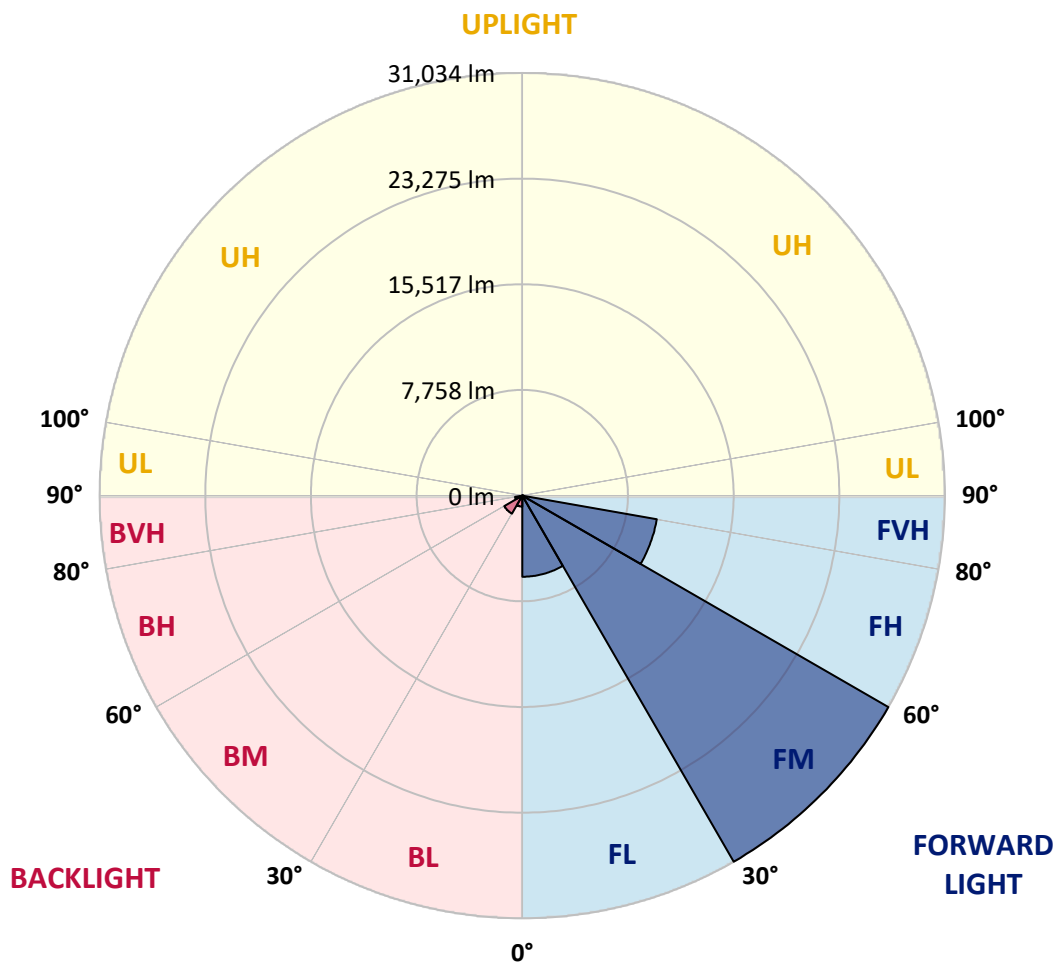
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5956.5	11.9			
FM	(30°-60°)	31034.0	62.1			
FH	(60°-80°)	10025.9	20.0			G4/12000
FVH	(80°-90°)	112.0	0.2			G2/225
BL	(0°-30°)	805.8	1.6	B2/1000		
BM	(30°-60°)	1527.2	3.1	B2/2500		
BH	(60°-80°)	541.6	1.1	B2/1000		G2/1000
BVH	(80°-90°)	10.1	0.0			G1/100
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°	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5
2.5°	6129.1	6073.9	5963.4	5925.4	5763.1	5511.0	5290.0	4993.1	4758.3	4734.1	4451.0
5°	8207.8	8083.5	8031.7	7783.1	7392.9	7026.9	6398.5	5921.9	5372.9	5331.5	4761.7
7.5°	10210.6	10038.0	9986.2	9751.4	9295.6	8718.9	7904.0	7037.3	6167.1	6087.7	5179.5
10°	11660.9	11685.0	11591.8	11436.4	11067.0	10479.9	9475.1	8290.7	7051.1	6950.9	5649.2
12.5°	12700.2	12696.8	12714.1	12710.6	12513.8	12068.3	11011.7	9647.8	8024.8	7828.0	6187.8
15°	13377.0	13387.4	13439.2	13618.7	13639.5	13363.2	12482.7	10946.1	9154.0	8908.8	6771.4
17.5°	14060.7	14133.2	14216.1	14385.3	14537.3	14426.8	13805.2	12299.7	10176.1	9993.1	7396.4
20°	15189.9	15290.0	15241.7	15345.3	15424.7	15435.0	14955.1	13549.7	11415.7	11108.4	8111.2
22.5°	16995.8	16992.4	16868.0	16681.6	16526.2	16519.3	16084.2	14834.2	12541.4	12244.4	8829.4
25°	19278.3	19288.6	19046.9	18515.1	18128.4	17655.3	17154.6	15959.9	13746.5	13380.5	9585.6
27.5°	21895.7	21830.0	21464.0	20732.0	19965.4	19157.4	18435.7	17268.6	15024.1	14720.3	10452.3
30°	24247.2	24223.0	23794.8	22900.5	21892.2	21080.7	20034.5	18908.8	16678.1	16305.2	11422.6
32.5°	26436.4	26470.9	25877.0	24951.6	23977.8	23042.1	21937.1	20476.5	18301.1	17772.7	12479.2
35°	28145.6	28180.2	27565.5	26795.5	25794.1	25017.2	23964.0	22147.7	19903.3	19457.8	13694.7
37.5°	29057.2	29102.1	28746.5	28166.4	27541.4	27151.2	26170.5	24299.0	21850.8	21581.4	15131.2
40°	29229.9	29281.7	29126.3	28970.9	28936.4	29216.1	28929.5	26833.5	24551.0	24129.8	17272.0
42.5°	28711.9	28781.0	28850.1	29195.4	29899.8	30925.3	31923.2	30272.7	28028.2	27461.9	19889.4
45°	27351.4	27344.5	27617.3	28511.7	30089.7	32278.9	35051.7	34578.6	32765.8	32092.4	23587.6
47.5°	25024.1	24989.6	25580.0	26854.2	29312.8	32527.5	37603.5	39806.5	38812.0	38190.5	27562.1
50°	21477.8	21647.0	22575.9	24354.2	27382.5	31774.8	38390.8	43235.4	43774.0	43114.5	30773.4
52.5°	17323.8	17316.9	18774.1	21187.8	24523.4	30117.3	37841.7	43856.9	45386.6	44882.5	32354.9
55°	12821.1	12910.9	14426.8	16861.1	20811.4	27092.5	36049.6	43218.1	46001.2	45645.6	33397.7
57°	9537.3	9696.1	10911.6	13487.5	17579.4	24098.7	33663.6	42075.2	46243.0	46049.6	34264.4
57.5°	8901.9	8908.8	10093.2	12434.4	16633.2	22948.8	32979.9	41598.6	46236.1	46129.0	34406.0
60°	5480.0	5652.6	6471.0	8404.7	12175.4	17910.9	28397.7	38860.4	45876.9	46032.3	35010.3
62.5°	3280.4	3352.9	3884.7	5065.6	7848.7	13073.2	23238.9	35355.6	44941.2	45414.2	34968.8
65°	2109.8	2127.1	2368.8	3066.3	4906.8	8836.3	17907.4	30725.0	42520.6	43390.8	33601.4
67.5°	1629.8	1657.5	1754.1	2013.1	2845.3	5504.1	12665.7	25783.8	38604.9	39727.1	30286.5
70°	1446.8	1460.6	1495.2	1578.0	1881.9	3107.7	7879.8	20141.5	32013.0	32330.7	23701.6
72.5°	1180.9	1218.9	1326.0	1353.6	1491.7	1940.6	4385.3	13518.6	21508.9	21588.3	13259.6
75°	915.1	922.0	1080.8	1160.2	1256.9	1336.3	1957.9	6816.3	10331.5	9779.0	5110.5
77.5°	683.7	714.8	787.3	887.4	1025.5	956.5	877.1	2569.1	3207.9	3149.2	1484.8
80°	438.5	455.8	549.0	666.4	797.6	625.0	493.8	752.8	704.4	725.1	355.7
82.5°	221.0	224.4	352.2	542.1	507.6	314.2	310.8	307.3	262.4	259.0	165.7
85°	24.2	51.8	227.9	310.8	227.9	103.6	145.0	141.6	138.1	141.6	96.7
87.5°	3.5	3.5	38.0	44.9	31.1	34.5	41.4	44.9	55.2	51.8	41.4
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°	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5
2.5°	4312.8	4174.7	3919.2	3674.0	3491.0	3373.6	3221.7	3166.4	3087.0	3076.6	3038.7
5°	4499.3	4236.9	3791.4	3439.2	3156.1	2942.0	2755.5	2600.1	2475.8	2448.2	2462.0
7.5°	4765.2	4375.0	3753.4	3273.5	2879.8	2513.8	2216.8	2033.8	1902.6	1854.3	1861.2
10°	5065.6	4558.0	3746.5	3097.4	2496.5	2047.6	1723.1	1560.8	1484.8	1457.2	1426.1
12.5°	5421.3	4768.6	3729.3	2824.6	2075.3	1633.3	1401.9	1305.2	1232.7	1212.0	1212.0
15°	5821.8	4993.1	3646.4	2486.2	1685.1	1350.1	1194.7	1118.8	1094.6	1073.9	1073.9
17.5°	6239.6	5214.1	3473.7	2068.4	1398.5	1156.8	1060.1	1015.2	980.7	956.5	956.5
20°	6716.1	5431.6	3197.5	1698.9	1180.9	1032.5	956.5	904.7	877.1	856.4	849.4
22.5°	7168.5	5607.7	2845.3	1395.0	1029.0	928.9	859.8	804.6	776.9	766.6	766.6
25°	7638.1	5714.8	2420.6	1153.3	939.2	842.5	766.6	721.7	697.5	690.6	687.2
27.5°	8093.9	5776.9	2047.6	1008.3	856.4	763.1	690.6	656.1	631.9	625.0	628.5
30°	8646.4	5787.3	1685.1	904.7	783.8	687.2	621.5	590.5	576.7	569.7	566.3
32.5°	9205.8	5773.5	1415.7	842.5	714.8	621.5	566.3	542.1	531.8	521.4	521.4
35°	9834.2	5701.0	1205.1	780.4	649.2	566.3	518.0	497.2	483.4	473.1	469.6
37.5°	10614.6	5663.0	1084.3	711.3	590.5	514.5	469.6	448.9	438.5	424.7	421.3
40°	11843.9	5832.2	1046.3	649.2	531.8	466.2	424.7	400.6	386.7	372.9	369.5
42.5°	13377.0	6129.1	984.1	587.0	480.0	421.3	379.8	352.2	328.0	310.8	303.9
45°	15362.5	6519.3	887.4	521.4	435.1	372.9	334.9	300.4	269.3	255.5	252.1
47.5°	17444.7	6895.7	801.1	469.6	386.7	331.5	290.1	252.1	224.4	214.1	210.6
50°	18722.3	6971.7	745.9	410.9	338.4	286.6	245.2	210.6	193.4	183.0	183.0
52.5°	19305.9	6850.8	669.9	359.1	293.5	252.1	210.6	183.0	172.7	165.7	162.3
55°	19713.3	6664.3	569.7	310.8	252.1	214.1	186.5	165.7	151.9	145.0	141.6
57°	19951.6	6412.3	493.8	272.8	217.5	186.5	165.7	148.5	134.7	120.9	120.9
57.5°	19962.0	6315.6	473.1	269.3	207.2	179.6	162.3	145.0	127.8	113.9	110.5
60°	19654.6	5652.6	379.8	227.9	165.7	151.9	134.7	113.9	89.8	76.0	72.5
62.5°	18667.1	4810.1	314.2	193.4	134.7	117.4	96.7	86.3	62.2	44.9	44.9
65°	17171.9	3901.9	269.3	155.4	110.5	86.3	65.6	62.2	38.0	20.7	17.3
67.5°	15010.3	3038.7	227.9	127.8	93.2	62.2	44.9	41.4	20.7	6.9	0.0
70°	11436.4	2071.8	189.9	103.6	69.1	44.9	31.1	24.2	13.8	3.5	0.0
72.5°	6591.8	1139.5	158.8	79.4	51.8	34.5	24.2	13.8	13.8	0.0	0.0
75°	2355.0	490.3	120.9	58.7	41.4	27.6	17.3	6.9	10.4	3.5	0.0
77.5°	749.3	262.4	79.4	44.9	34.5	20.7	13.8	6.9	6.9	3.5	0.0
80°	221.0	138.1	48.3	38.0	24.2	17.3	10.4	3.5	6.9	3.5	0.0
82.5°	120.9	69.1	38.0	27.6	24.2	13.8	10.4	3.5	3.5	3.5	0.0
85°	62.2	41.4	31.1	27.6	24.2	13.8	10.4	3.5	0.0	3.5	3.5
87.5°	34.5	31.1	31.1	27.6	24.2	17.3	10.4	3.5	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)