

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: P457001

Luminaire Tested: **GALN-SA8B-740-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457001  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8B-740-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33087 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

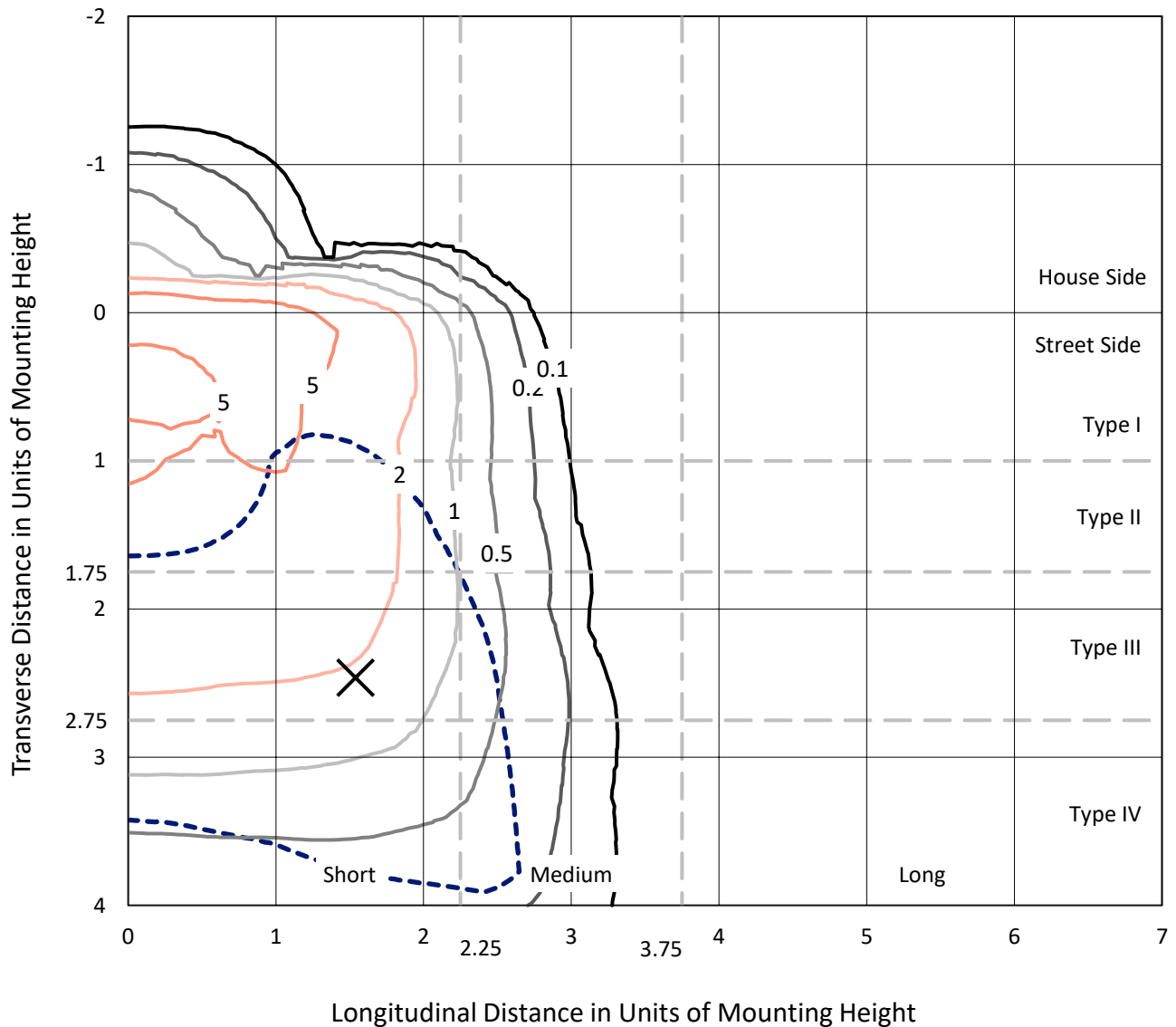
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

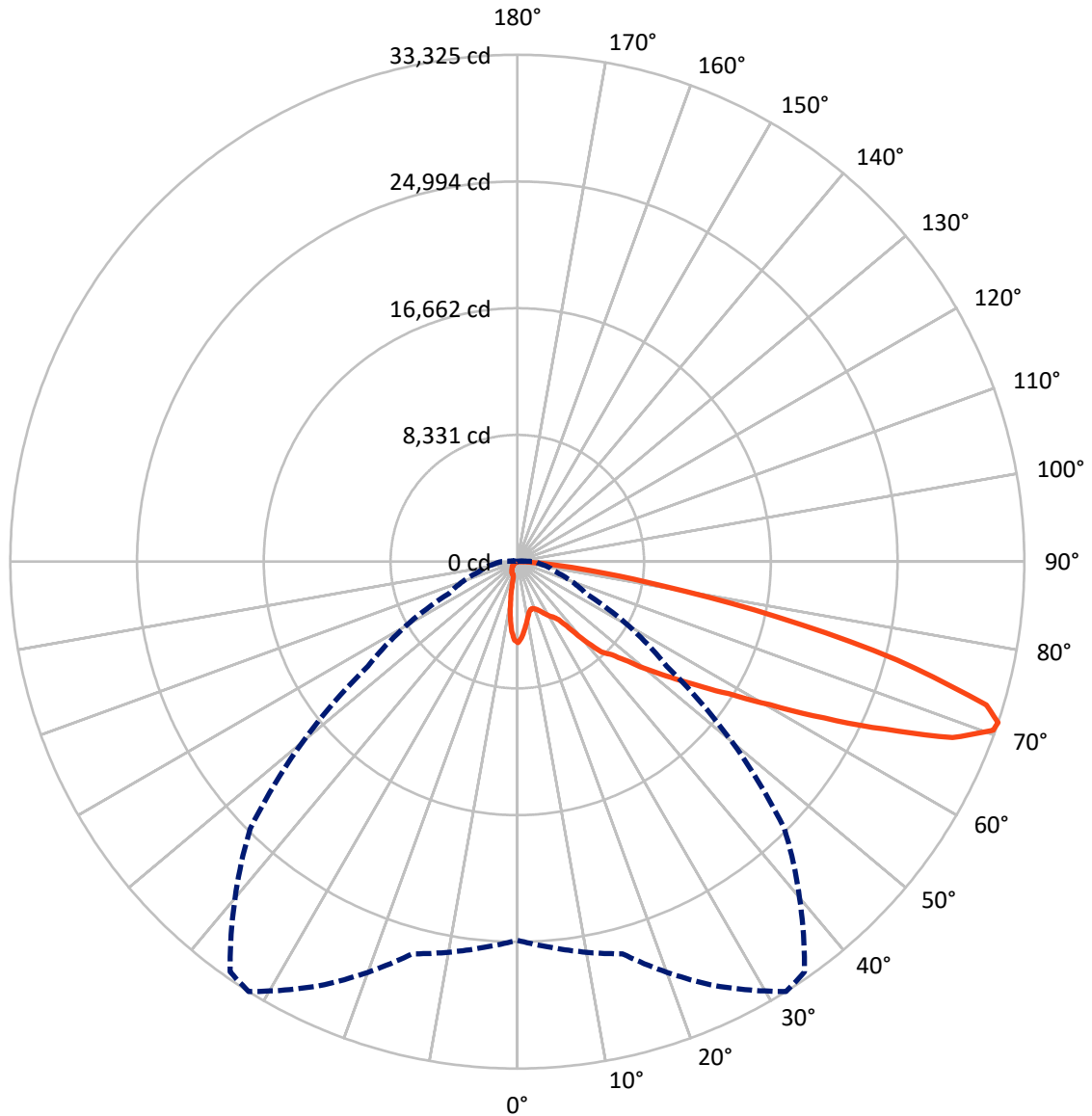
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2771.4	0.0	2771.4
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	30315.6	0.0	30315.6
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	33087.0	0.0	33087.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	432.7	1.3
10°-20°	939.0	2.8
20°-30°	1460.8	4.4
30°-40°	2433.7	7.4
40°-50°	4527.1	13.7
50°-60°	7268.5	22.0
60°-70°	9776.4	29.5
70°-80°	5800.5	17.5
80°-90°	448.4	1.4
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°	33087.0	100.0
0°-180°	33087.0	100.0

**Coefficient of Utilization**



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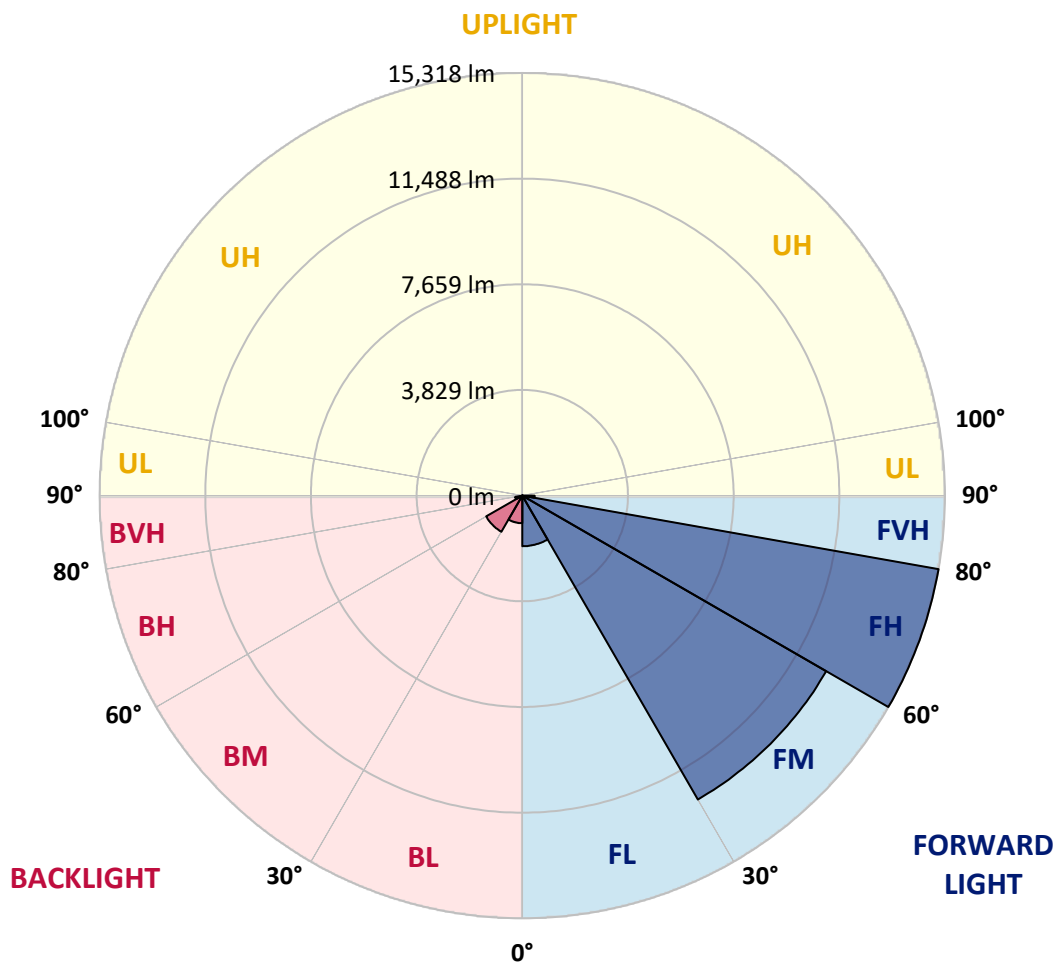
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1833.9	5.5			
FM (30°-60°)	12717.4	38.4			
FH (60°-80°)	15317.7	46.3			G5
FVH (80°-90°)	446.6	1.3			G3/500
BL (0°-30°)	998.6	3.0	B2/1000		
BM (30°-60°)	1511.9	4.6	B2/2500		
BH (60°-80°)	259.2	0.8	B1/500		G1/500
BVH (80°-90°)	1.7	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	5320.9	5320.9	5320.9	5320.9	5320.9	5320.9	5320.9	5320.9	5320.9	5320.9	5320.9
2.5°	4934.9	4985.7	4978.0	4995.8	5039.0	5056.8	5105.0	5158.4	5232.0	5282.8	5315.8
5°	4419.3	4457.4	4462.4	4551.3	4594.5	4642.8	4785.0	4939.9	5112.6	5249.8	5341.2
7.5°	3868.1	3888.5	3929.1	4045.9	4155.1	4203.4	4419.3	4688.5	4960.3	5216.8	5381.9
10°	3413.5	3436.4	3510.0	3634.5	3736.1	3799.6	4099.3	4437.1	4818.0	5199.0	5440.3
12.5°	3154.4	3167.1	3195.1	3306.8	3436.4	3504.9	3827.5	4213.5	4703.7	5206.6	5539.3
15°	3136.7	3131.6	3098.6	3144.3	3261.1	3332.2	3647.2	4061.2	4602.1	5232.0	5656.2
17.5°	3230.6	3217.9	3139.2	3139.2	3235.7	3294.1	3571.0	3979.9	4551.3	5290.4	5821.2
20°	3375.4	3355.1	3225.6	3215.4	3309.4	3370.3	3616.7	3985.0	4561.5	5399.6	6042.2
22.5°	3558.3	3535.4	3339.9	3344.9	3446.5	3507.5	3748.8	4076.4	4625.0	5534.3	6278.4
25°	3797.0	3771.6	3540.5	3530.3	3637.0	3690.3	3944.3	4238.9	4713.9	5701.9	6588.3
27.5°	4114.5	4061.2	3784.3	3769.1	3883.4	3951.9	4180.5	4457.4	4871.4	5933.0	7004.8
30°	4376.1	4317.7	4053.5	4012.9	4134.8	4188.2	4424.4	4752.0	5181.2	6336.8	7581.3
32.5°	4719.0	4632.6	4322.8	4216.1	4345.6	4414.2	4777.4	5300.6	5640.9	6763.5	8267.1
35°	5491.1	5437.7	5059.3	4686.0	4678.3	4764.7	5298.0	5854.3	6113.3	7429.0	9201.7
37.5°	6595.9	6557.8	6156.5	5656.2	5511.4	5470.8	5930.5	6463.8	6867.7	8343.3	10288.8
40°	7878.5	7789.6	7421.3	6997.2	6809.2	6689.9	6677.2	7370.5	7853.1	9585.3	11421.5
42.5°	8797.9	8635.4	8188.4	8157.9	8117.2	7992.8	7632.1	8696.3	9125.5	10921.2	12633.0
45°	9763.0	9516.7	8851.2	8737.0	8721.7	8714.1	9074.7	10265.9	10512.3	12368.9	13877.5
47.5°	10512.3	10316.7	9770.7	9719.9	9783.4	9956.1	10982.1	11932.0	11881.2	13659.1	14921.4
50°	11510.4	11363.1	10756.1	10852.6	11180.3	11462.2	13133.4	13748.0	13006.4	14675.0	15680.8
52.5°	12688.9	12417.1	11853.3	12114.9	12617.8	13087.7	15416.7	15337.9	13796.3	15439.5	16247.2
55°	13709.9	13516.9	13323.9	13595.6	14347.4	14934.1	17479.0	16529.1	14370.3	16054.2	16496.1
57.5°	15437.0	15391.3	15193.2	15470.0	16381.8	16991.3	19325.4	17453.6	14738.5	16374.2	16204.0
60°	17992.0	17918.4	17550.1	17903.1	19091.8	20049.3	21027.1	18284.1	14822.3	16249.7	15363.3
62.5°	21065.2	20813.8	20498.8	21019.5	22650.0	23071.7	22629.7	18776.8	14509.9	15259.2	13336.6
65°	23935.2	23676.1	23683.7	24780.9	26556.3	26843.3	24499.0	18703.2	13595.6	12777.8	9836.7
67.5°	26132.1	26089.0	26398.8	28539.9	30861.3	30663.2	26170.2	17600.9	10885.6	8282.3	5226.9
70°	26243.9	26327.7	27216.6	30830.8	33187.7	32872.8	26028.0	14306.8	6786.4	3809.7	2059.8
71°	24892.7	25456.5	26685.8	30759.7	33324.9	32916.0	24829.2	11982.8	4978.0	2656.6	1485.8
72.5°	21212.5	21509.7	24166.3	28948.8	32240.4	31366.7	21789.0	8399.2	3187.5	1625.5	853.4
75°	11683.1	12414.6	16183.7	22711.0	25786.7	25019.7	14200.1	3990.0	1589.9	888.9	353.0
77.5°	5562.2	5420.0	7896.3	13506.7	17484.1	17443.4	7154.7	1772.8	927.0	601.9	177.8
80°	1589.9	1788.0	3022.4	6420.6	9707.2	9813.8	2748.1	855.9	642.6	469.9	91.4
82.5°	480.0	490.2	1109.9	2839.5	4828.2	4551.3	1031.2	436.8	462.2	373.4	53.3
85°	83.8	104.1	327.6	1000.7	1841.4	1396.9	259.1	208.3	304.8	246.4	30.5
87.5°	5.1	7.6	109.2	114.3	162.5	94.0	45.7	30.5	66.0	66.0	17.8
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°	5320.9	5320.9	5320.9	5320.9	5320.9	5320.9	5320.9	5320.9	5320.9	5320.9	5320.9
2.5°	5338.7	5353.9	5343.8	5320.9	5282.8	5237.1	5176.1	5125.3	5082.2	5059.3	5087.2
5°	5371.7	5392.0	5341.2	5226.9	5054.2	4866.3	4652.9	4487.8	4358.3	4317.7	4302.4
7.5°	5422.5	5435.2	5298.0	5044.1	4678.3	4233.9	3845.3	3517.6	3263.7	3187.5	3075.7
10°	5488.5	5480.9	5221.9	4749.4	4106.9	3438.9	2837.0	2390.0	2052.2	1930.3	1920.1
12.5°	5590.1	5549.5	5125.3	4348.2	3426.2	2552.5	1808.3	1414.7	1201.3	1130.2	1115.0
15°	5717.1	5620.6	4973.0	3878.3	2623.6	1648.3	1115.0	995.6	967.7	962.6	957.5
17.5°	5867.0	5714.6	4772.3	3301.8	1843.9	1069.3	932.1	929.6	932.1	927.0	924.5
20°	6070.2	5813.6	4533.6	2618.5	1219.1	901.6	888.9	888.9	891.5	888.9	888.9
22.5°	6286.0	5930.5	4238.9	1998.8	919.4	855.9	853.4	858.5	863.5	861.0	861.0
25°	6552.7	6082.9	3850.4	1369.0	822.9	817.8	820.4	830.5	840.7	843.2	840.7
27.5°	6938.8	6270.8	3433.8	942.3	754.3	759.4	784.8	810.2	825.4	828.0	828.0
30°	7373.1	6479.1	2890.3	764.5	698.4	698.4	728.9	777.2	810.2	815.3	817.8
32.5°	7931.8	6720.3	2288.4	688.3	645.1	640.0	668.0	726.4	787.3	805.1	805.1
35°	8622.7	7004.8	1701.7	640.0	607.0	594.3	609.6	657.8	736.5	787.3	792.4
37.5°	9432.9	7274.0	1244.5	596.9	571.5	553.7	563.8	601.9	665.4	741.6	761.9
40°	10182.1	7512.8	929.6	561.3	535.9	523.2	530.8	548.6	601.9	673.1	685.7
42.5°	10999.9	7698.2	739.1	523.2	500.3	495.3	495.3	502.9	538.4	579.1	581.6
45°	11815.2	7764.2	619.7	477.5	462.2	467.3	464.8	459.7	474.9	469.9	469.9
47.5°	12396.8	7685.5	513.0	434.3	434.3	441.9	429.2	411.4	403.8	373.4	375.9
50°	12795.6	7398.5	421.6	383.5	403.8	414.0	388.6	360.7	332.7	299.7	292.1
52.5°	12960.7	6888.0	345.4	317.5	358.1	370.8	340.3	307.3	264.1	236.2	228.6
55°	12854.0	6258.1	287.0	259.1	302.2	317.5	287.0	248.9	200.6	170.2	165.1
57.5°	12384.1	5506.3	243.8	205.7	241.3	251.4	231.1	190.5	142.2	111.8	111.8
60°	11571.4	4729.1	198.1	162.5	180.3	195.6	175.2	137.1	96.5	68.6	63.5
62.5°	9923.0	3840.2	160.0	127.0	127.0	139.7	121.9	99.1	61.0	35.6	33.0
65°	7164.8	2633.8	127.0	94.0	91.4	91.4	76.2	66.0	35.6	15.2	10.2
67.5°	3893.5	1485.8	101.6	71.1	63.5	61.0	48.3	38.1	15.2	2.5	0.0
70°	1531.5	571.5	78.7	48.3	40.6	38.1	25.4	17.8	10.2	0.0	0.0
71°	1038.8	393.7	68.6	40.6	33.0	27.9	20.3	15.2	7.6	0.0	0.0
72.5°	594.3	243.8	53.3	30.5	25.4	20.3	15.2	10.2	7.6	0.0	0.0
75°	259.1	124.5	33.0	22.9	17.8	12.7	10.2	7.6	2.5	0.0	0.0
77.5°	132.1	68.6	22.9	17.8	10.2	7.6	5.1	2.5	0.0	0.0	0.0
80°	73.7	35.6	15.2	10.2	7.6	5.1	2.5	2.5	0.0	0.0	0.0
82.5°	40.6	20.3	7.6	5.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.4	12.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.7	5.1	0.0	0.0	0.0	0.0	2.5	2.5	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)