

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: P456305

Luminaire Tested: **GALN-SA7C-740-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456305
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-SA7C-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA 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: 35261 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

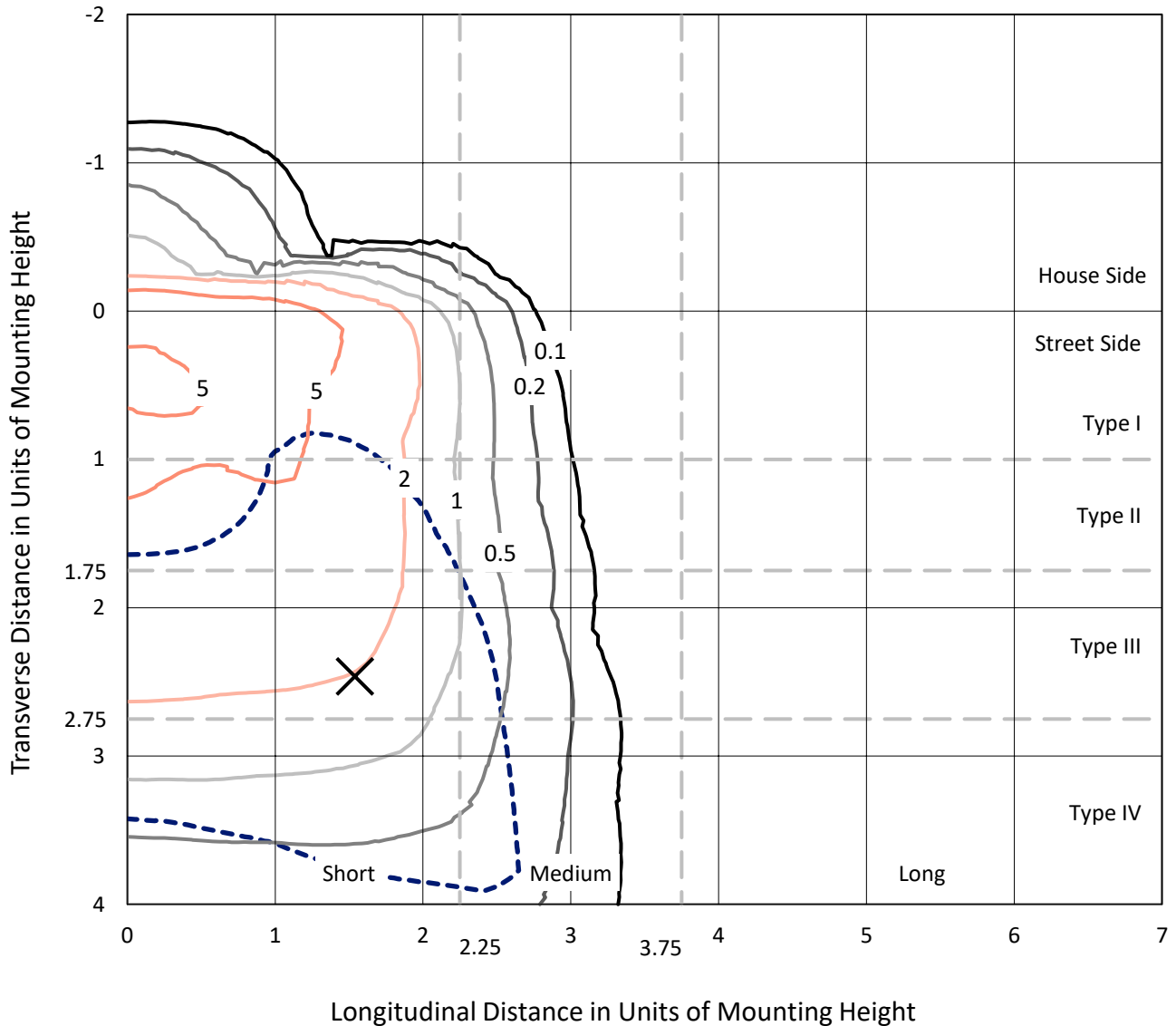
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456305
 CATALOG NUMBER: GALN-SA7C-740-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

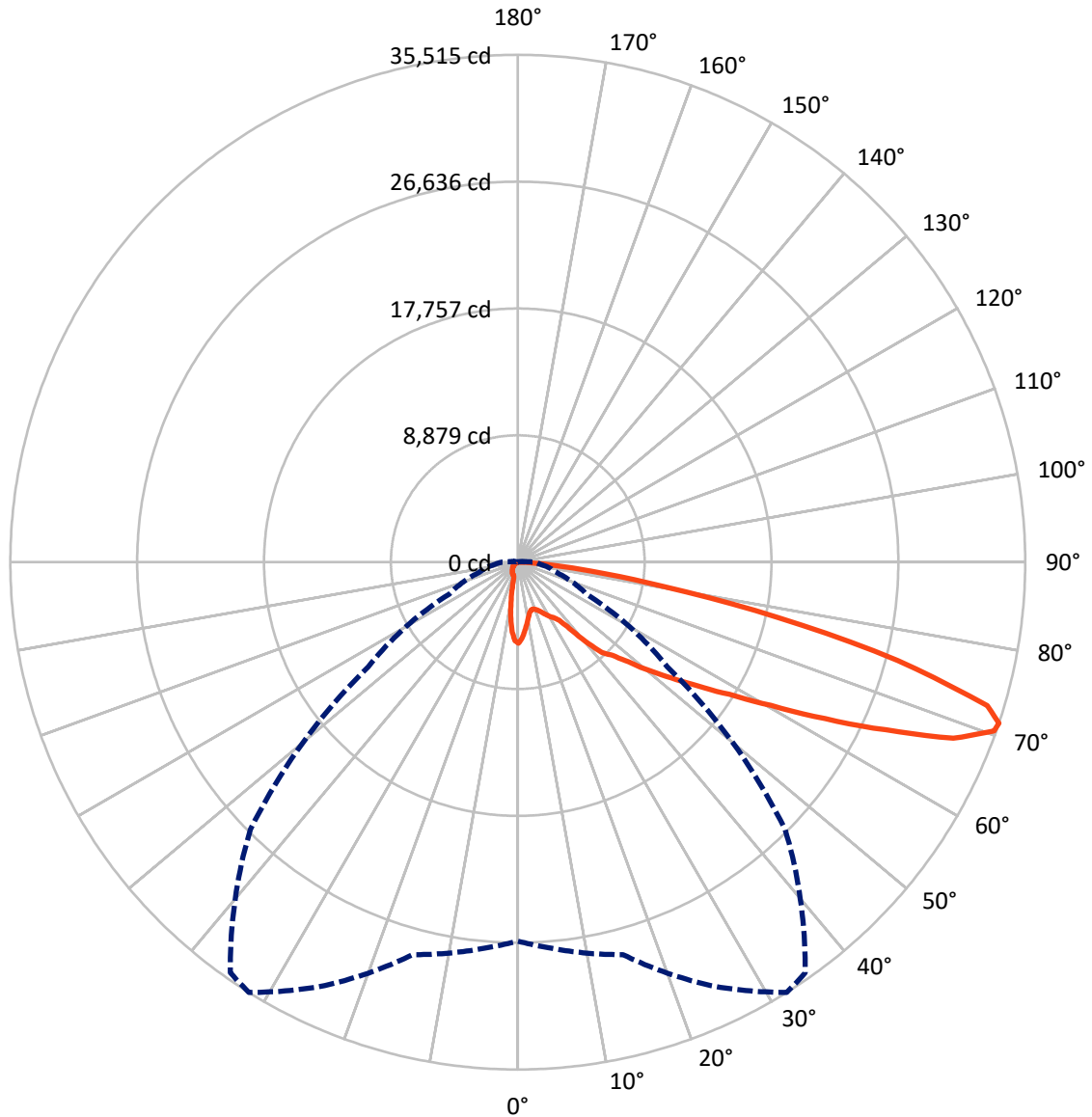
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P456305
CATALOG NUMBER: GALN-SA7C-740-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P456305
 CATALOG NUMBER: GALN-SA7C-740-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2953.5	0.0	2953.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	32307.5	0.0	32307.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	35261.0	0.0	35261.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.1	1.3
10°-20°	1000.7	2.8
20°-30°	1556.8	4.4
30°-40°	2593.6	7.4
40°-50°	4824.6	13.7
50°-60°	7746.0	22.0
60°-70°	10418.8	29.5
70°-80°	6181.6	17.5
80°-90°	477.8	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°	35261.0	100.0
0°-180°	35261.0	100.0

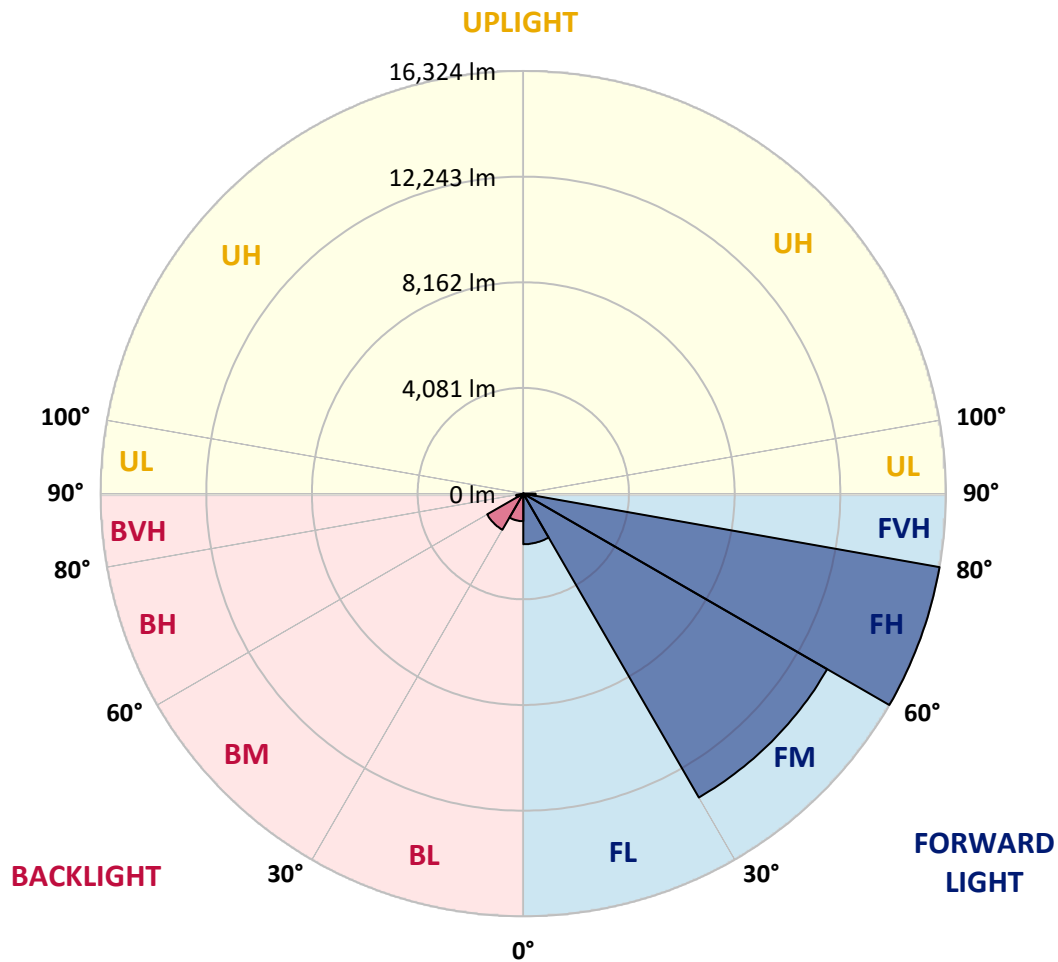


REPORT NUMBER: P456305
 CATALOG NUMBER: GALN-SA7C-740-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1954.4	5.5			
FM	(30°-60°)	13553.0	38.4			
FH	(60°-80°)	16324.1	46.3			G5
FVH	(80°-90°)	476.0	1.3			G3/500
BL	(0°-30°)	1064.2	3.0	B3/2500		
BM	(30°-60°)	1611.2	4.6	B2/2500		
BH	(60°-80°)	276.2	0.8	B1/500		G1/500
BVH	(80°-90°)	1.9	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 IV Short





REPORT NUMBER: P456305

CATALOG NUMBER: GALN-SA7C-740-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5
2.5°	5259.1	5313.2	5305.1	5324.1	5370.1	5389.0	5440.5	5497.3	5575.8	5629.9	5665.1
5°	4709.6	4750.2	4755.7	4850.4	4896.4	4947.8	5099.4	5264.5	5448.6	5594.7	5692.2
7.5°	4122.3	4143.9	4187.3	4311.8	4428.1	4479.6	4709.6	4996.6	5286.2	5559.5	5735.5
10°	3637.8	3662.2	3740.6	3873.3	3981.5	4049.2	4368.6	4728.6	5134.6	5540.6	5797.7
12.5°	3361.7	3375.2	3405.0	3524.1	3662.2	3735.2	4079.0	4490.4	5012.8	5548.7	5903.3
15°	3342.8	3337.4	3302.2	3350.9	3475.4	3551.2	3886.8	4328.0	4904.5	5575.8	6027.8
17.5°	3442.9	3429.4	3345.5	3345.5	3448.3	3510.6	3805.6	4241.4	4850.4	5638.0	6203.7
20°	3597.2	3575.5	3437.5	3426.7	3526.8	3591.8	3854.3	4246.8	4861.2	5754.4	6439.2
22.5°	3792.1	3767.7	3559.3	3564.7	3673.0	3737.9	3995.1	4344.2	4928.9	5897.9	6690.9
25°	4046.5	4019.4	3773.1	3762.3	3876.0	3932.8	4203.5	4517.5	5023.6	6076.5	7021.2
27.5°	4384.8	4328.0	4033.0	4016.7	4138.5	4211.6	4455.2	4750.2	5191.4	6322.8	7465.1
30°	4663.6	4601.4	4319.9	4276.6	4406.5	4463.3	4715.1	5064.2	5521.7	6753.2	8079.5
32.5°	5029.0	4937.0	4606.8	4493.1	4631.1	4704.2	5091.3	5648.9	6011.6	7207.9	8810.3
35°	5851.9	5795.0	5391.7	4993.8	4985.7	5077.8	5646.2	6238.9	6515.0	7917.1	9806.3
37.5°	7029.3	6988.7	6561.0	6027.8	5873.5	5830.2	6320.1	6888.5	7318.9	8891.5	10964.8
40°	8396.2	8301.4	7909.0	7456.9	7256.6	7129.4	7115.9	7854.8	8369.1	10215.1	12172.0
42.5°	9376.0	9202.8	8726.4	8693.9	8650.6	8518.0	8133.6	9267.7	9725.1	11638.8	13463.1
45°	10404.5	10142.0	9432.8	9311.0	9294.8	9286.7	9671.0	10940.4	11203.0	13181.6	14789.4
47.5°	11203.0	10994.6	10412.6	10358.5	10426.2	10610.2	11703.7	12716.0	12661.9	14556.6	15901.8
50°	12266.7	12109.7	11462.8	11565.7	11914.9	12215.3	13996.3	14651.3	13861.0	15639.3	16711.1
52.5°	13522.6	13233.0	12632.1	12910.9	13446.8	13947.6	16429.6	16345.7	14702.8	16454.0	17314.7
55°	14610.7	14405.0	14199.3	14488.9	15290.1	15915.3	18627.5	17615.2	15314.5	17109.0	17580.0
57.5°	16451.3	16402.6	16191.4	16486.5	17458.2	18107.8	20595.2	18600.4	15706.9	17450.0	17268.7
60°	19174.2	19095.7	18703.2	19079.5	20346.2	21366.6	22408.7	19485.5	15796.3	17317.4	16372.8
62.5°	22449.3	22181.3	21845.7	22400.6	24138.3	24587.6	24116.6	20010.6	15463.3	16261.8	14212.8
65°	25507.9	25231.8	25239.9	26409.2	28301.2	28607.0	26108.8	19932.1	14488.9	13617.4	10483.0
67.5°	27849.2	27803.1	28133.4	30415.1	32889.0	32677.9	27889.8	18757.4	11600.9	8826.5	5570.4
70°	27968.2	28057.6	29004.9	32856.5	35368.3	35032.7	27738.2	15246.8	7232.3	4060.0	2195.1
71°	26528.3	27129.2	28439.2	32780.7	35514.5	35078.7	26460.6	12770.2	5305.1	2831.2	1583.4
72.5°	22606.3	22923.0	25754.2	30850.9	34358.7	33427.6	23220.7	8951.0	3396.9	1732.3	909.4
75°	12450.8	13230.3	17247.0	24203.2	27481.0	26663.6	15133.1	4252.2	1694.4	947.3	376.2
77.5°	5927.7	5776.1	8415.1	14394.2	18632.9	18589.6	7624.8	1889.3	987.9	641.5	189.5
80°	1694.4	1905.5	3221.0	6842.5	10345.0	10458.7	2928.6	912.2	684.8	500.7	97.4
82.5°	511.6	522.4	1182.8	3026.1	5145.4	4850.4	1098.9	465.6	492.6	397.9	56.8
85°	89.3	111.0	349.2	1066.4	1962.4	1488.7	276.1	221.9	324.8	262.5	32.5
87.5°	5.4	8.1	116.4	121.8	173.2	100.1	48.7	32.5	70.4	70.4	18.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P456305
 CATALOG NUMBER: GALN-SA7C-740-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5
2.5°	5689.5	5705.7	5694.9	5670.5	5629.9	5581.2	5516.2	5462.1	5416.1	5391.7	5421.5
5°	5724.7	5746.3	5692.2	5570.4	5386.3	5186.0	4958.7	4782.7	4644.7	4601.4	4585.1
7.5°	5778.8	5792.3	5646.2	5375.5	4985.7	4512.1	4097.9	3748.8	3478.1	3396.9	3277.8
10°	5849.2	5841.0	5565.0	5061.5	4376.7	3664.9	3023.4	2547.0	2187.0	2057.1	2046.3
12.5°	5957.4	5914.1	5462.1	4633.9	3651.3	2720.2	1927.2	1507.6	1280.3	1204.5	1188.2
15°	6092.8	5989.9	5299.7	4133.1	2796.0	1756.6	1188.2	1061.0	1031.2	1025.8	1020.4
17.5°	6252.5	6090.1	5085.9	3518.7	1965.1	1139.5	993.4	990.6	993.4	987.9	985.2
20°	6469.0	6195.6	4831.4	2790.6	1299.2	960.9	947.3	947.3	950.0	947.3	947.3
22.5°	6699.1	6320.1	4517.5	2130.2	979.8	912.2	909.4	914.9	920.3	917.6	917.6
25°	6983.3	6482.5	4103.3	1458.9	877.0	871.6	874.3	885.1	895.9	898.6	895.9
27.5°	7394.7	6682.8	3659.4	1004.2	803.9	809.3	836.4	863.4	879.7	882.4	882.4
30°	7857.5	6904.8	3080.2	814.7	744.3	744.3	776.8	828.2	863.4	868.8	871.6
32.5°	8453.0	7161.9	2438.7	733.5	687.5	682.1	711.9	774.1	839.1	858.0	858.0
35°	9189.2	7465.1	1813.5	682.1	646.9	633.4	649.6	701.0	784.9	839.1	844.5
37.5°	10052.7	7752.0	1326.3	636.1	609.0	590.1	600.9	641.5	709.2	790.4	812.0
40°	10851.1	8006.4	990.6	598.2	571.1	557.6	565.7	584.6	641.5	717.3	730.8
42.5°	11722.7	8204.0	787.6	557.6	533.2	527.8	527.8	535.9	573.8	617.1	619.8
45°	12591.5	8274.4	660.4	508.9	492.6	498.0	495.3	489.9	506.2	500.7	500.7
47.5°	13211.4	8190.4	546.8	462.8	462.8	471.0	457.4	438.5	430.4	397.9	400.6
50°	13636.3	7884.6	449.3	408.7	430.4	441.2	414.1	384.4	354.6	319.4	311.3
52.5°	13812.2	7340.5	368.1	338.3	381.6	395.2	362.7	327.5	281.5	251.7	243.6
55°	13698.6	6669.3	305.9	276.1	322.1	338.3	305.9	265.3	213.8	181.3	175.9
57.5°	13197.8	5868.1	259.8	219.2	257.1	268.0	246.3	203.0	151.6	119.1	119.1
60°	12331.7	5039.9	211.1	173.2	192.2	208.4	186.8	146.2	102.9	73.1	67.7
62.5°	10575.0	4092.5	170.5	135.3	135.3	148.9	129.9	105.6	65.0	37.9	35.2
65°	7635.6	2806.8	135.3	100.1	97.4	97.4	81.2	70.4	37.9	16.2	10.8
67.5°	4149.4	1583.4	108.3	75.8	67.7	65.0	51.4	40.6	16.2	2.7	0.0
70°	1632.1	609.0	83.9	51.4	43.3	40.6	27.1	18.9	10.8	0.0	0.0
71°	1107.0	419.5	73.1	43.3	35.2	29.8	21.7	16.2	8.1	0.0	0.0
72.5°	633.4	259.8	56.8	32.5	27.1	21.7	16.2	10.8	8.1	0.0	0.0
75°	276.1	132.6	35.2	24.4	18.9	13.5	10.8	8.1	2.7	0.0	0.0
77.5°	140.7	73.1	24.4	18.9	10.8	8.1	5.4	2.7	0.0	0.0	0.0
80°	78.5	37.9	16.2	10.8	8.1	5.4	2.7	2.7	0.0	0.0	0.0
82.5°	43.3	21.7	8.1	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.1	13.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.5	5.4	0.0	0.0	0.0	0.0	2.7	2.7	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)