

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: P457436

Luminaire Tested: **GALN-SA8D-730-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457436  
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-SA8D-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA 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: 40966 lumens  
Efficiency: N/A  
Efficacy: 83.1 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

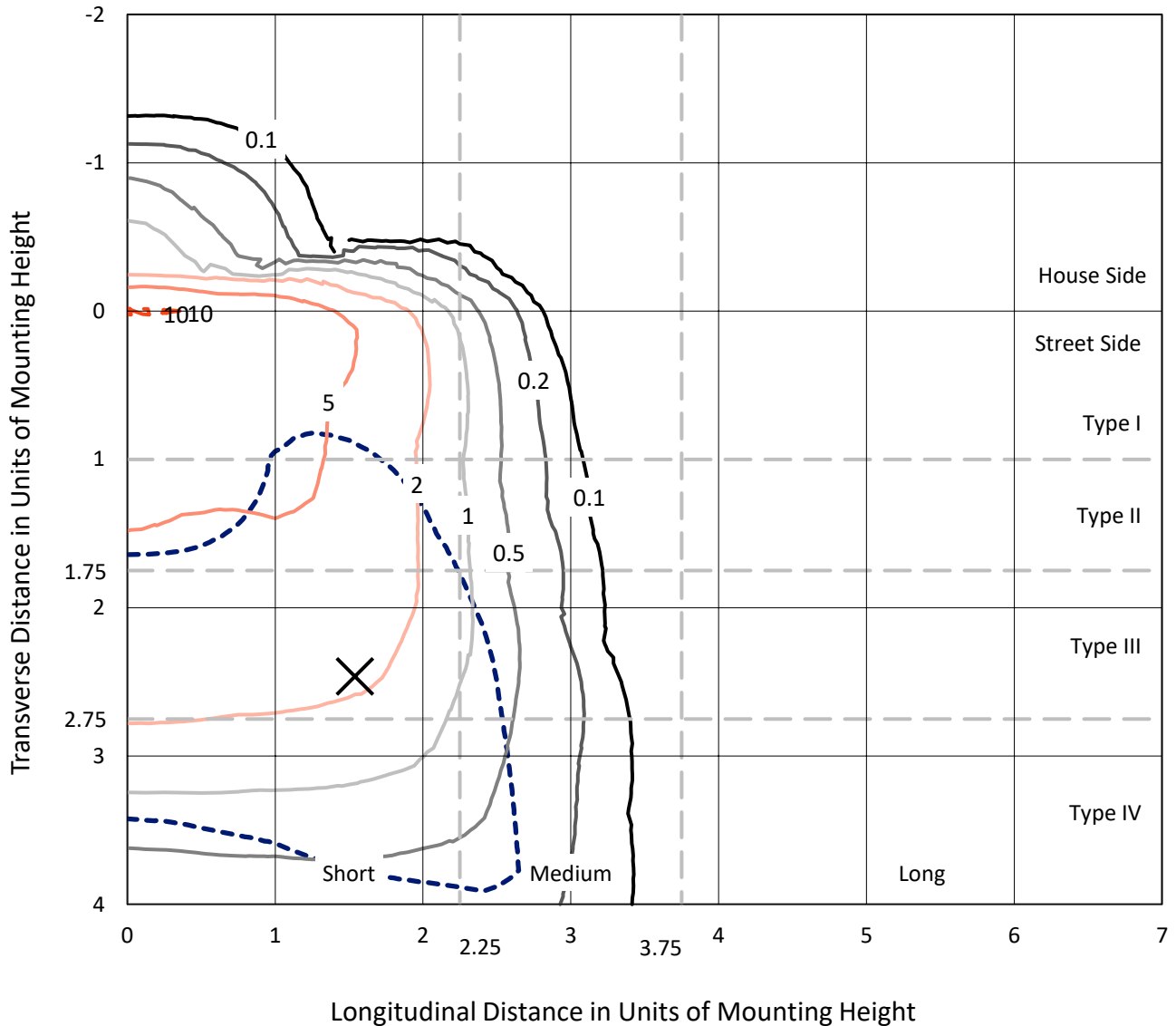
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

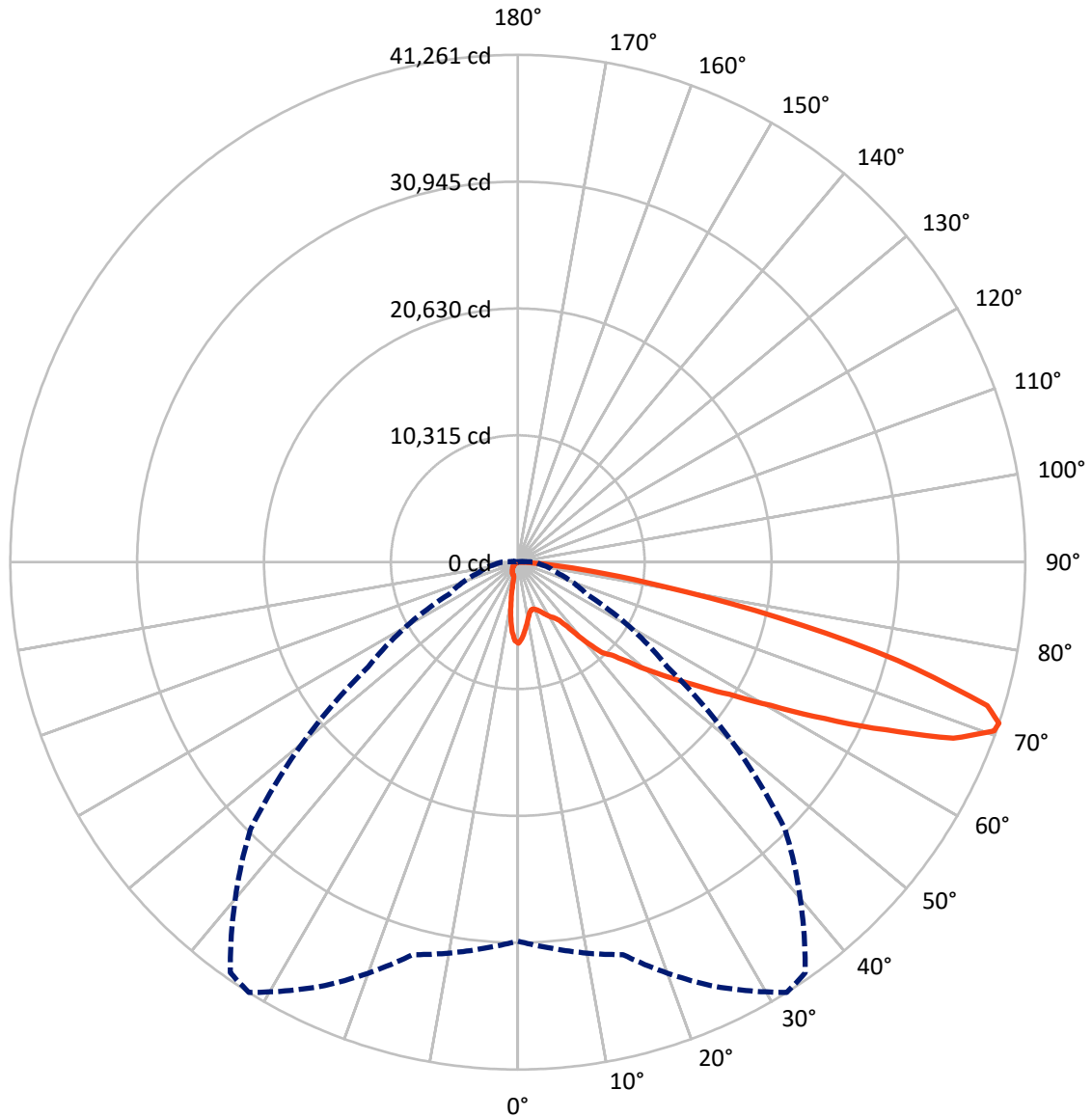
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	3431.3	0.0	3431.3
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	37534.7	0.0	37534.7
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	40966.0	0.0	40966.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	535.7	1.3
10°-20°	1162.6	2.8
20°-30°	1808.7	4.4
30°-40°	3013.2	7.4
40°-50°	5605.2	13.7
50°-60°	8999.3	22.0
60°-70°	12104.5	29.5
70°-80°	7181.7	17.5
80°-90°	555.1	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°	40966.0	100.0
0°-180°	40966.0	100.0

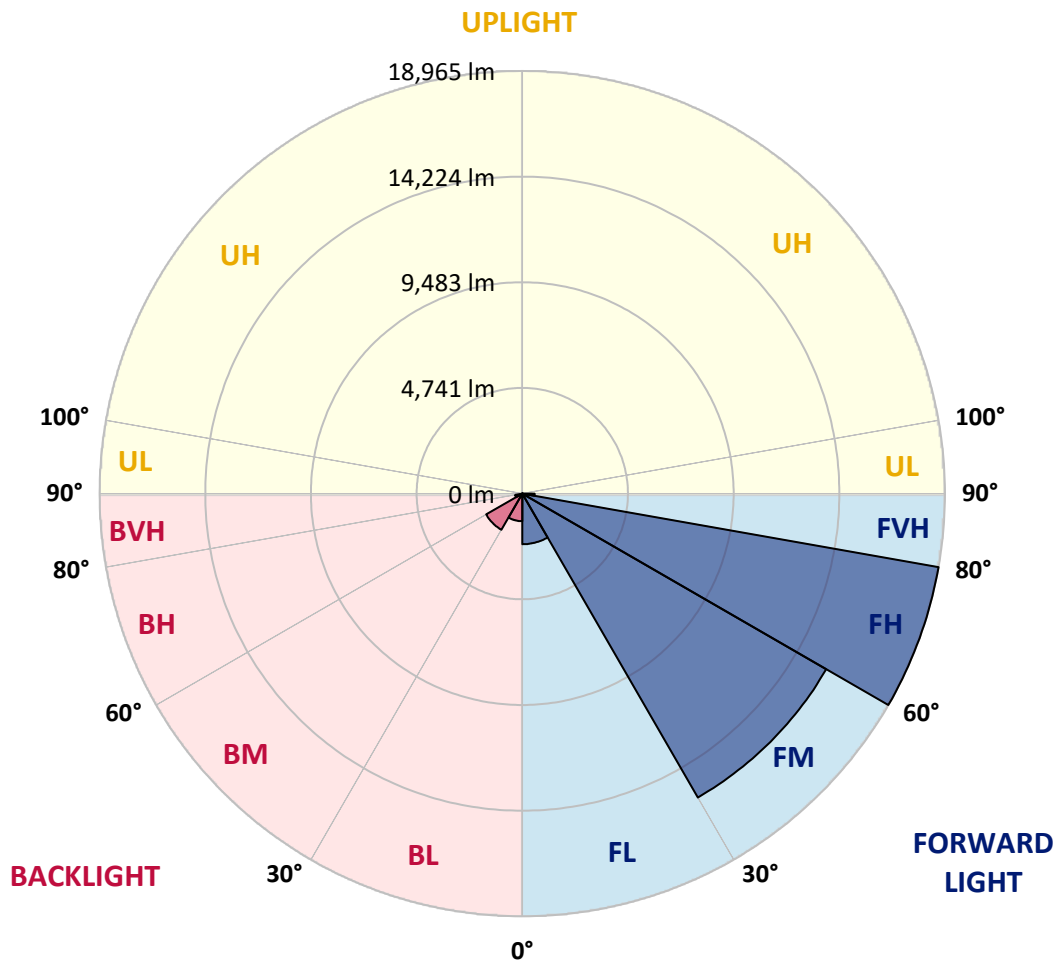


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2270.6	5.5			
FM	(30°-60°)	15745.8	38.4			
FH	(60°-80°)	18965.3	46.3			G5
FVH	(80°-90°)	553.0	1.3			G4/750
BL	(0°-30°)	1236.4	3.0	B3/2500		
BM	(30°-60°)	1871.9	4.6	B2/2500		
BH	(60°-80°)	320.9	0.8	B1/500		G1/500
BVH	(80°-90°)	2.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0
2.5°	6110.0	6172.9	6163.4	6185.5	6238.9	6260.9	6320.7	6386.7	6477.9	6540.8	6581.7
5°	5471.6	5518.8	5525.1	5635.2	5688.6	5748.4	5924.5	6116.3	6330.1	6499.9	6613.1
7.5°	4789.3	4814.4	4864.7	5009.4	5144.6	5204.3	5471.6	5805.0	6141.4	6459.0	6663.4
10°	4226.4	4254.7	4345.9	4499.9	4625.7	4704.3	5075.4	5493.6	5965.3	6437.0	6735.8
12.5°	3905.6	3921.3	3955.9	4094.3	4254.7	4339.6	4738.9	5216.9	5823.8	6446.5	6858.4
15°	3883.6	3877.3	3836.4	3893.0	4037.7	4125.7	4515.7	5028.2	5698.0	6477.9	7003.1
17.5°	4000.0	3984.2	3886.7	3886.7	4006.2	4078.6	4421.3	4927.6	5635.2	6550.2	7207.5
20°	4179.2	4154.0	3993.7	3981.1	4097.4	4172.9	4477.9	4933.9	5647.7	6685.5	7481.0
22.5°	4405.6	4377.3	4135.2	4141.5	4267.2	4342.7	4641.5	5047.1	5726.3	6852.1	7773.5
25°	4701.2	4669.8	4383.6	4371.0	4503.1	4569.1	4883.6	5248.4	5836.4	7059.7	8157.1
27.5°	5094.3	5028.2	4685.5	4666.6	4808.1	4893.0	5176.0	5518.8	6031.4	7345.8	8672.9
30°	5418.2	5345.8	5018.8	4968.5	5119.4	5185.5	5477.9	5883.6	6415.0	7845.8	9386.7
32.5°	5842.7	5735.8	5352.1	5220.1	5380.4	5465.3	5915.0	6562.8	6984.2	8374.1	10235.7
35°	6798.7	6732.6	6264.1	5801.8	5792.4	5899.3	6559.7	7248.3	7569.1	9198.0	11392.9
37.5°	8166.6	8119.4	7622.6	7003.1	6823.8	6773.5	7342.7	8003.1	8503.0	10330.1	12738.8
40°	9754.6	9644.5	9188.6	8663.4	8430.7	8282.9	8267.2	9125.7	9723.2	11867.8	14141.3
42.5°	10893.0	10691.7	10138.2	10100.5	10050.2	9896.1	9449.6	10767.2	11298.6	13521.9	15641.3
45°	12087.9	11782.9	10959.0	10817.5	10798.6	10789.2	11235.7	12710.5	13015.6	15314.3	17182.2
47.5°	13015.6	12773.4	12097.3	12034.4	12113.1	12326.9	13597.3	14773.4	14710.5	16911.8	18474.6
50°	14251.4	14069.0	13317.5	13436.9	13842.6	14191.7	16260.8	17021.8	16103.6	18169.6	19414.9
52.5°	15710.5	15374.0	14675.9	14999.8	15622.5	16204.2	19087.8	18990.3	17081.6	19116.1	20116.1
55°	16974.6	16735.7	16496.7	16833.1	17763.9	18490.3	21641.3	20465.2	17792.2	19877.1	20424.3
57.5°	19113.0	19056.4	18811.1	19153.9	20282.8	21037.5	23927.4	21609.8	18248.2	20273.3	20062.7
60°	22276.5	22185.3	21729.3	22166.4	23638.1	24823.6	26034.3	22638.1	18352.0	20119.3	19021.8
62.5°	26081.5	25770.1	25380.2	26024.9	28043.7	28565.7	28018.5	23248.2	17965.2	18892.9	16512.4
65°	29634.9	29314.1	29323.6	30682.0	32880.1	33235.5	30333.0	23157.0	16833.1	15820.6	12179.1
67.5°	32355.0	32301.5	32685.1	35336.1	38210.2	37965.0	32402.1	21792.2	13477.8	10254.6	6471.6
70°	32493.3	32597.1	33697.7	38172.5	41090.7	40700.8	32226.0	17713.6	8402.4	4716.9	2550.3
71°	30820.4	31518.5	33040.5	38084.5	41260.5	40754.2	30741.8	14836.3	6163.4	3289.3	1839.6
72.5°	26263.8	26631.8	29921.0	35842.3	39917.8	38836.0	26977.7	10399.2	3946.5	2012.6	1056.6
75°	14465.2	15370.9	20037.5	28119.2	31927.3	30977.6	17581.6	4940.2	1968.5	1100.6	437.1
77.5°	6886.7	6710.6	9776.6	16723.1	21647.5	21597.2	8858.4	2194.9	1147.8	745.3	220.1
80°	1968.5	2213.8	3742.1	7949.6	12018.7	12150.8	3402.5	1059.7	795.6	581.8	113.2
82.5°	594.3	606.9	1374.2	3515.7	5977.9	5635.2	1276.7	540.9	572.3	462.3	66.0
85°	103.8	128.9	405.7	1239.0	2279.8	1729.5	320.8	257.9	377.4	305.0	37.7
87.5°	6.3	9.4	135.2	141.5	201.3	116.4	56.6	37.7	81.8	81.8	22.0
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°	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0
2.5°	6610.0	6628.9	6616.3	6588.0	6540.8	6484.2	6408.7	6345.8	6292.4	6264.1	6298.7
5°	6650.9	6676.0	6613.1	6471.6	6257.8	6025.1	5760.9	5556.5	5396.2	5345.8	5327.0
7.5°	6713.8	6729.5	6559.7	6245.2	5792.4	5242.1	4761.0	4355.3	4040.8	3946.5	3808.1
10°	6795.5	6786.1	6465.3	5880.4	5084.8	4257.8	3512.5	2959.1	2540.9	2389.9	2377.3
12.5°	6921.3	6871.0	6345.8	5383.6	4242.1	3160.3	2239.0	1751.6	1487.4	1399.4	1380.5
15°	7078.5	6959.0	6157.2	4801.8	3248.4	2040.9	1380.5	1232.7	1198.1	1191.8	1185.5
17.5°	7264.1	7075.4	5908.7	4088.0	2283.0	1323.9	1154.1	1150.9	1154.1	1147.8	1144.6
20°	7515.6	7198.0	5613.1	3242.1	1509.4	1116.3	1100.6	1100.6	1103.8	1100.6	1100.6
22.5°	7782.9	7342.7	5248.4	2474.8	1138.4	1059.7	1056.6	1062.9	1069.2	1066.0	1066.0
25°	8113.1	7531.4	4767.2	1694.9	1018.9	1012.6	1015.7	1028.3	1040.9	1044.0	1040.9
27.5°	8591.1	7764.1	4251.5	1166.7	934.0	940.2	971.7	1003.1	1022.0	1025.1	1025.1
30°	9128.8	8021.9	3578.6	946.5	864.8	864.8	902.5	962.3	1003.1	1009.4	1012.6
32.5°	9820.6	8320.7	2833.3	852.2	798.7	792.4	827.0	899.4	974.8	996.8	996.8
35°	10676.0	8672.9	2106.9	792.4	751.6	735.8	754.7	814.5	911.9	974.8	981.1
37.5°	11679.1	9006.2	1540.9	739.0	707.5	685.5	698.1	745.3	823.9	918.2	943.4
40°	12606.8	9301.8	1150.9	695.0	663.5	647.8	657.2	679.2	745.3	833.3	849.0
42.5°	13619.3	9531.3	915.1	647.8	619.5	613.2	613.2	622.6	666.7	717.0	720.1
45°	14628.8	9613.1	767.3	591.2	572.3	578.6	575.5	569.2	588.0	581.8	581.8
47.5°	15348.9	9515.6	635.2	537.7	537.7	547.2	531.4	509.4	500.0	462.3	465.4
50°	15842.6	9160.3	522.0	474.8	500.0	512.6	481.1	446.5	411.9	371.1	361.6
52.5°	16047.0	8528.2	427.7	393.1	443.4	459.1	421.4	380.5	327.0	292.4	283.0
55°	15914.9	7748.3	355.3	320.8	374.2	393.1	355.3	308.2	248.4	210.7	204.4
57.5°	15333.2	6817.5	301.9	254.7	298.7	311.3	286.2	235.8	176.1	138.4	138.4
60°	14326.9	5855.3	245.3	201.3	223.3	242.1	217.0	169.8	119.5	84.9	78.6
62.5°	12286.0	4754.7	198.1	157.2	157.2	173.0	150.9	122.6	75.5	44.0	40.9
65°	8871.0	3261.0	157.2	116.4	113.2	113.2	94.3	81.8	44.0	18.9	12.6
67.5°	4820.7	1839.6	125.8	88.0	78.6	75.5	59.7	47.2	18.9	3.1	0.0
70°	1896.2	707.5	97.5	59.7	50.3	47.2	31.4	22.0	12.6	0.0	0.0
71°	1286.1	487.4	84.9	50.3	40.9	34.6	25.2	18.9	9.4	0.0	0.0
72.5°	735.8	301.9	66.0	37.7	31.4	25.2	18.9	12.6	9.4	0.0	0.0
75°	320.8	154.1	40.9	28.3	22.0	15.7	12.6	9.4	3.1	0.0	0.0
77.5°	163.5	84.9	28.3	22.0	12.6	9.4	6.3	3.1	0.0	0.0	0.0
80°	91.2	44.0	18.9	12.6	9.4	6.3	3.1	3.1	0.0	0.0	0.0
82.5°	50.3	25.2	9.4	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.4	15.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.7	6.3	0.0	0.0	0.0	0.0	3.1	3.1	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)