

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: P458132

Luminaire Tested: **GALN-SA9C-730-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458132  
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-SA9C-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 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: 41797 lumens  
Efficiency: N/A  
Efficacy: 86.9 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

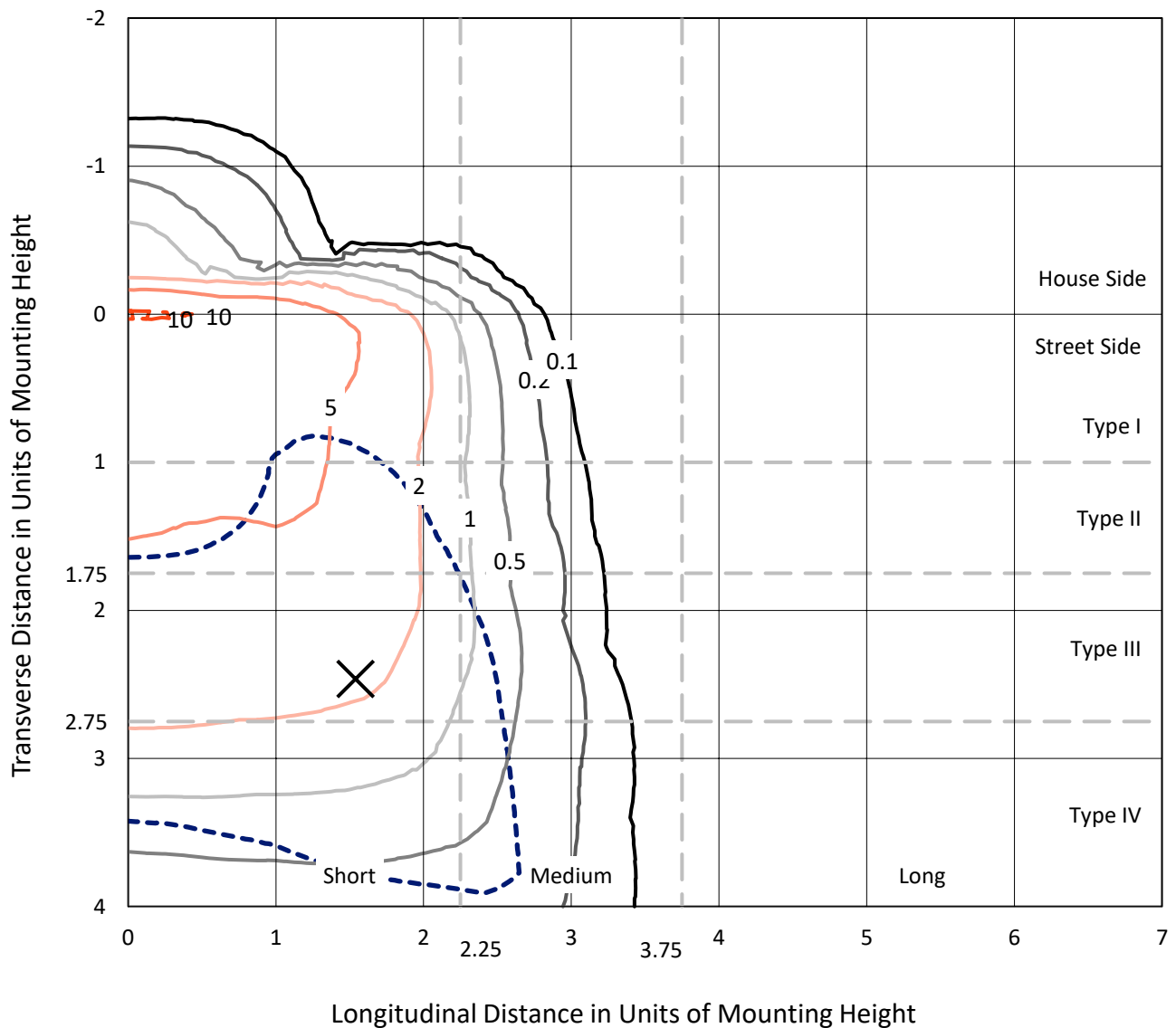
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

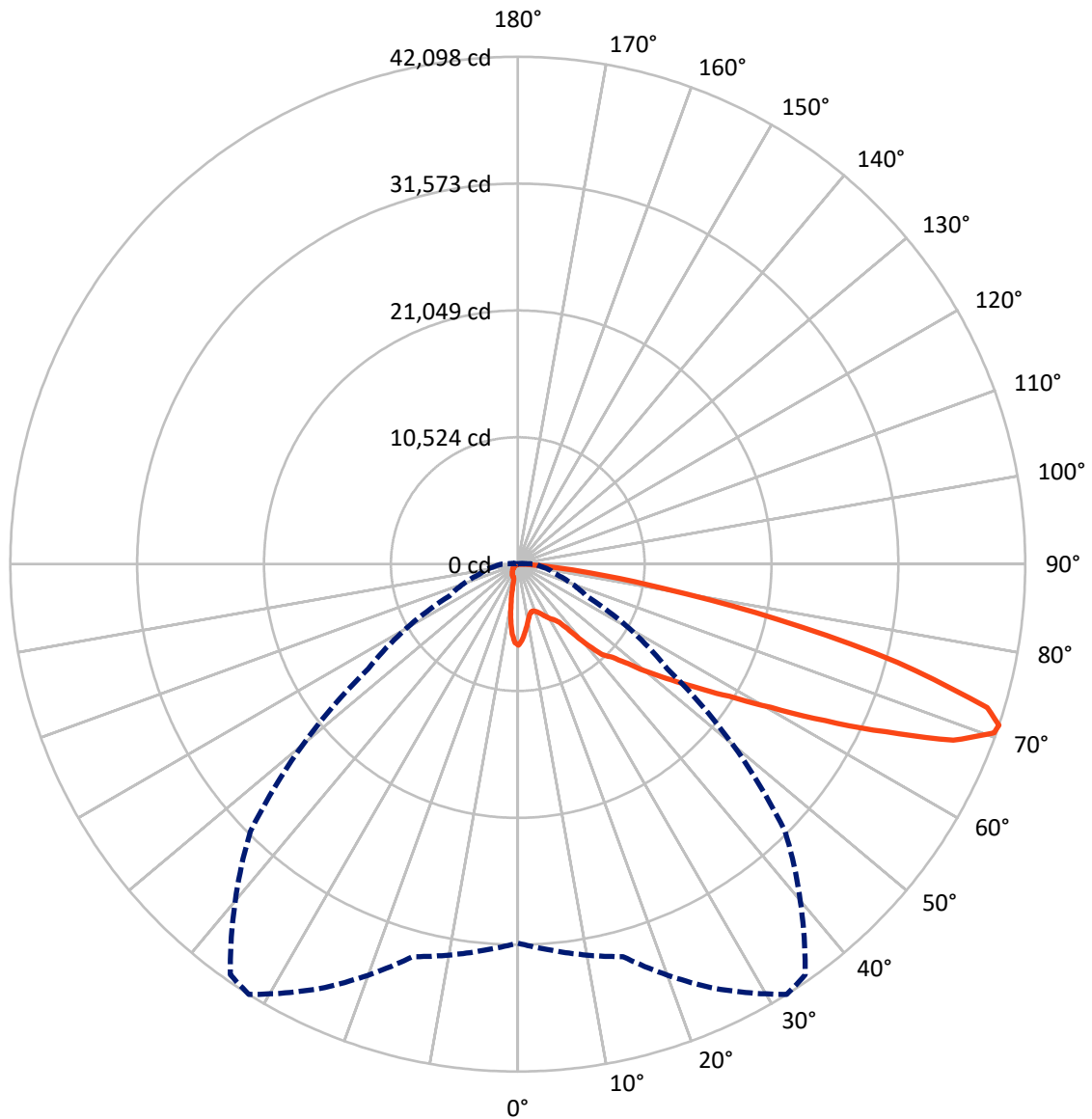
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	3500.9	0.0	3500.9
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	38296.1	0.0	38296.1
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	41797.0	0.0	41797.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	546.6	1.3
10°-20°	1186.2	2.8
20°-30°	1845.4	4.4
30°-40°	3074.4	7.4
40°-50°	5718.9	13.7
50°-60°	9181.8	22.0
60°-70°	12350.0	29.5
70°-80°	7327.4	17.5
80°-90°	566.4	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°	41797.0	100.0
0°-180°	41797.0	100.0



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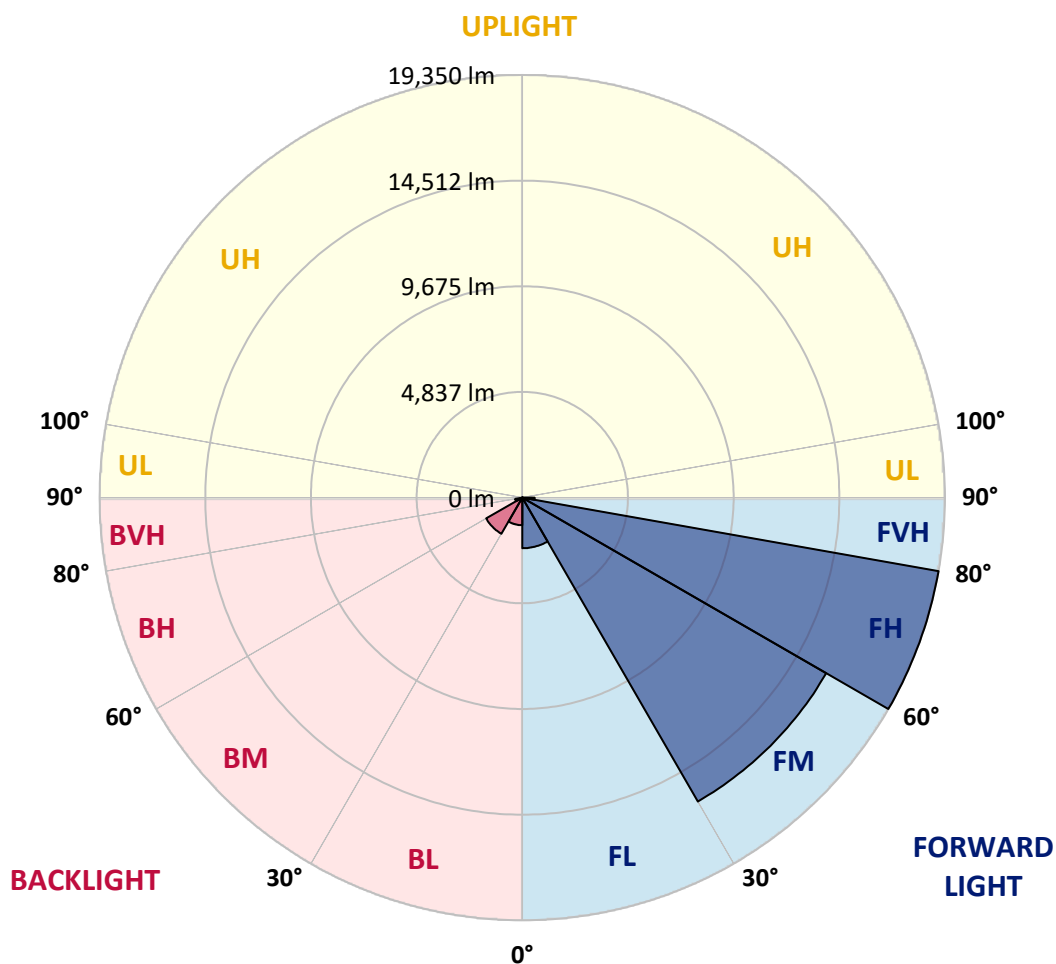
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2316.7	5.5			
FM	(30°-60°)	16065.2	38.4			
FH	(60°-80°)	19350.0	46.3			G5
FVH	(80°-90°)	564.2	1.3			G4/750
BL	(0°-30°)	1261.5	3.0	B3/2500		
BM	(30°-60°)	1909.8	4.6	B2/2500		
BH	(60°-80°)	327.4	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°	6721.6	6721.6	6721.6	6721.6	6721.6	6721.6	6721.6	6721.6	6721.6	6721.6	6721.6
2.5°	6233.9	6298.1	6288.5	6310.9	6365.5	6387.9	6448.9	6516.3	6609.3	6673.5	6715.2
5°	5582.6	5630.8	5637.2	5749.5	5804.0	5865.0	6044.6	6240.3	6458.5	6631.8	6747.3
7.5°	4886.4	4912.1	4963.4	5111.0	5249.0	5309.9	5582.6	5922.7	6266.0	6590.1	6798.6
10°	4312.1	4341.0	4434.0	4591.2	4719.6	4799.8	5178.4	5605.1	6086.3	6567.6	6872.4
12.5°	3984.8	4000.9	4036.2	4177.3	4341.0	4427.6	4835.1	5322.7	5942.0	6577.2	6997.5
15°	3962.4	3956.0	3914.3	3972.0	4119.6	4209.4	4607.3	5130.2	5813.6	6609.3	7145.1
17.5°	4081.1	4065.1	3965.6	3965.6	4087.5	4161.3	4511.0	5027.6	5749.5	6683.1	7353.7
20°	4264.0	4238.3	4074.7	4061.8	4180.6	4257.6	4568.8	5034.0	5762.3	6821.1	7632.8
22.5°	4495.0	4466.1	4219.1	4225.5	4353.8	4430.8	4735.6	5149.5	5842.5	6991.1	7931.2
25°	4796.6	4764.5	4472.5	4459.7	4594.4	4661.8	4982.7	5354.8	5954.8	7202.9	8322.6
27.5°	5197.6	5130.2	4780.5	4761.3	4905.7	4992.3	5281.0	5630.8	6153.7	7494.8	8848.8
30°	5528.1	5454.3	5120.6	5069.3	5223.3	5290.7	5589.0	6002.9	6545.1	8005.0	9577.1
32.5°	5961.2	5852.1	5460.7	5326.0	5489.6	5576.2	6035.0	6695.9	7125.9	8544.0	10443.4
35°	6936.6	6869.2	6391.1	5919.5	5909.9	6019.0	6692.7	7395.4	7722.6	9384.6	11624.1
37.5°	8332.2	8284.1	7777.2	7145.1	6962.2	6910.9	7491.6	8165.4	8675.5	10539.6	12997.3
40°	9952.5	9840.2	9375.0	8839.2	8601.7	8450.9	8434.9	9310.8	9920.4	12108.5	14428.2
42.5°	11113.9	10908.6	10343.9	10305.4	10254.1	10096.9	9641.3	10985.6	11527.8	13796.1	15958.6
45°	12333.1	12021.9	11181.3	11036.9	11017.7	11008.0	11463.6	12968.4	13279.6	15624.9	17530.7
47.5°	13279.6	13032.5	12342.7	12278.6	12358.8	12577.0	13873.1	15073.1	15008.9	17254.8	18849.4
50°	14540.5	14354.4	13587.6	13709.5	14123.4	14479.5	16590.7	17367.1	16430.2	18538.2	19808.7
52.5°	16029.2	15685.9	14973.6	15304.1	15939.4	16532.9	19475.0	19375.6	17428.1	19503.9	20524.2
55°	17319.0	17075.1	16831.3	17174.6	18124.3	18865.4	22080.2	20880.3	18153.2	20280.3	20838.6
57.5°	19500.7	19442.9	19192.7	19542.4	20694.2	21464.2	24412.8	22048.2	18618.4	20684.6	20469.6
60°	22728.3	22635.3	22170.1	22616.1	24117.6	25327.2	26562.4	23097.3	18724.3	20527.4	19407.6
62.5°	26610.5	26292.9	25895.0	26552.8	28612.6	29145.2	28586.9	23719.7	18329.6	19276.1	16847.3
65°	30236.0	29908.8	29918.4	31304.4	33547.1	33909.6	30948.3	23626.7	17174.6	16141.5	12426.2
67.5°	33011.3	32956.7	33348.2	36052.9	38985.3	38735.1	33059.4	22234.3	13751.2	10462.6	6602.9
70°	33152.5	33258.3	34381.3	38946.8	41924.2	41526.4	32879.7	18073.0	8572.9	4812.6	2602.0
71°	31445.6	32157.9	33710.7	38857.0	42097.5	41580.9	31365.4	15137.3	6288.5	3356.0	1876.9
72.5°	26796.6	27172.0	30528.0	36569.4	40727.5	39623.8	27524.9	10610.2	4026.5	2053.4	1078.0
75°	14758.7	15682.7	20444.0	28689.6	32574.9	31606.0	17938.2	5040.4	2008.5	1122.9	446.0
77.5°	7026.4	6846.7	9974.9	17062.3	22086.7	22035.3	9038.1	2239.5	1171.1	760.4	224.6
80°	2008.5	2258.7	3818.0	8110.9	12262.5	12397.3	3471.5	1081.2	811.7	593.6	115.5
82.5°	606.4	619.2	1402.1	3587.0	6099.2	5749.5	1302.6	551.8	583.9	471.6	67.4
85°	105.9	131.5	413.9	1264.1	2326.1	1764.6	327.3	263.1	385.0	311.2	38.5
87.5°	6.4	9.6	138.0	144.4	205.3	118.7	57.8	38.5	83.4	83.4	22.5
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°	6721.6	6721.6	6721.6	6721.6	6721.6	6721.6	6721.6	6721.6	6721.6	6721.6	6721.6
2.5°	6744.1	6763.3	6750.5	6721.6	6673.5	6615.7	6538.7	6474.6	6420.0	6391.1	6426.4
5°	6785.8	6811.4	6747.3	6602.9	6384.7	6147.3	5877.8	5669.3	5505.6	5454.3	5435.0
7.5°	6849.9	6866.0	6692.7	6371.9	5909.9	5348.4	4857.5	4443.6	4122.8	4026.5	3885.4
10°	6933.4	6923.7	6596.5	5999.7	5188.0	4344.2	3583.8	3019.1	2592.4	2438.4	2425.6
12.5°	7061.7	7010.4	6474.6	5492.8	4328.1	3224.4	2284.4	1787.1	1517.6	1427.7	1408.5
15°	7222.1	7100.2	6282.1	4899.2	3314.3	2082.3	1408.5	1257.7	1222.4	1216.0	1209.6
17.5°	7411.4	7218.9	6028.6	4170.9	2329.3	1350.7	1177.5	1174.3	1177.5	1171.1	1167.9
20°	7668.1	7344.0	5727.0	3307.9	1540.0	1139.0	1122.9	1122.9	1126.2	1122.9	1122.9
22.5°	7940.8	7491.6	5354.8	2525.0	1161.4	1081.2	1078.0	1084.4	1090.9	1087.6	1087.6
25°	8277.7	7684.1	4863.9	1729.3	1039.5	1033.1	1036.3	1049.1	1062.0	1065.2	1062.0
27.5°	8765.4	7921.6	4337.8	1190.3	952.9	959.3	991.4	1023.5	1042.7	1045.9	1045.9
30°	9314.0	8184.6	3651.2	965.7	882.3	882.3	920.8	981.8	1023.5	1029.9	1033.1
32.5°	10019.9	8489.4	2890.8	869.5	814.9	808.5	843.8	917.6	994.6	1017.1	1017.1
35°	10892.5	8848.8	2149.6	808.5	766.8	750.8	770.0	831.0	930.4	994.6	1001.0
37.5°	11916.0	9188.9	1572.1	754.0	721.9	699.4	712.3	760.4	840.6	936.9	962.5
40°	12862.5	9490.5	1174.3	709.1	677.0	660.9	670.6	693.0	760.4	850.2	866.3
42.5°	13895.6	9724.7	933.6	660.9	632.1	625.6	625.6	635.3	680.2	731.5	734.7
45°	14925.5	9808.1	782.9	603.2	583.9	590.3	587.1	580.7	600.0	593.6	593.6
47.5°	15660.2	9708.6	648.1	548.6	548.6	558.3	542.2	519.8	510.1	471.6	474.8
50°	16163.9	9346.1	532.6	484.5	510.1	523.0	490.9	455.6	420.3	378.6	369.0
52.5°	16372.5	8701.2	436.3	401.1	452.4	468.4	429.9	388.2	333.7	298.4	288.8
55°	16237.7	7905.5	362.5	327.3	381.8	401.1	362.5	314.4	253.5	215.0	208.5
57.5°	15644.2	6955.8	308.0	259.9	304.8	317.6	292.0	240.6	179.7	141.2	141.2
60°	14617.5	5974.1	250.3	205.3	227.8	247.0	221.4	173.3	121.9	86.6	80.2
62.5°	12535.2	4851.1	202.1	160.4	160.4	176.5	154.0	125.1	77.0	44.9	41.7
65°	9050.9	3327.1	160.4	118.7	115.5	115.5	96.3	83.4	44.9	19.3	12.8
67.5°	4918.5	1876.9	128.3	89.8	80.2	77.0	61.0	48.1	19.3	3.2	0.0
70°	1934.7	721.9	99.5	61.0	51.3	48.1	32.1	22.5	12.8	0.0	0.0
71°	1312.2	497.3	86.6	51.3	41.7	35.3	25.7	19.3	9.6	0.0	0.0
72.5°	750.8	308.0	67.4	38.5	32.1	25.7	19.3	12.8	9.6	0.0	0.0
75°	327.3	157.2	41.7	28.9	22.5	16.0	12.8	9.6	3.2	0.0	0.0
77.5°	166.8	86.6	28.9	22.5	12.8	9.6	6.4	3.2	0.0	0.0	0.0
80°	93.0	44.9	19.3	12.8	9.6	6.4	3.2	3.2	0.0	0.0	0.0
82.5°	51.3	25.7	9.6	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.1	16.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.0	6.4	0.0	0.0	0.0	0.0	3.2	3.2	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)