

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: P457206

Luminaire Tested: **GALN-SA8C-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37401 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

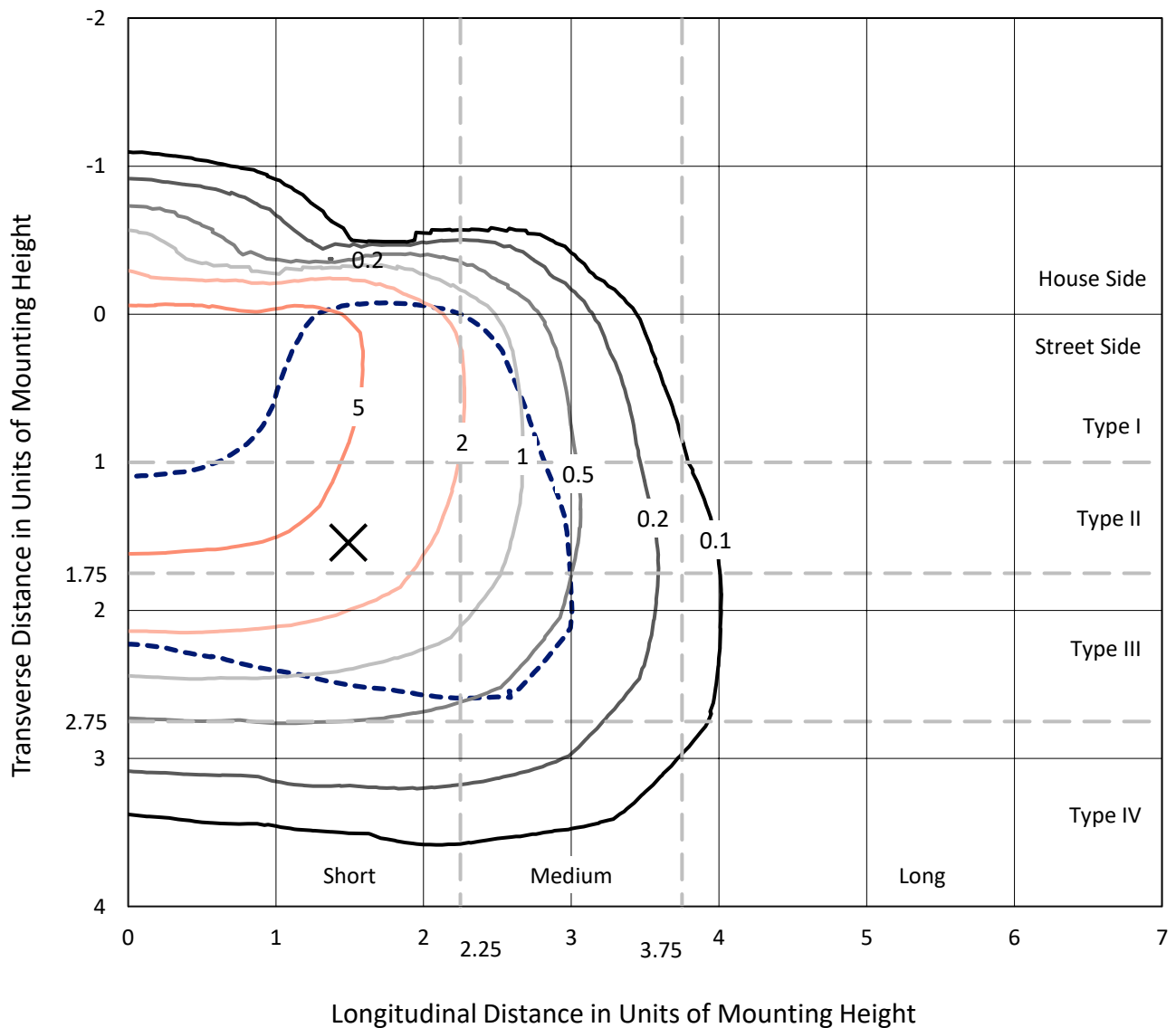
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

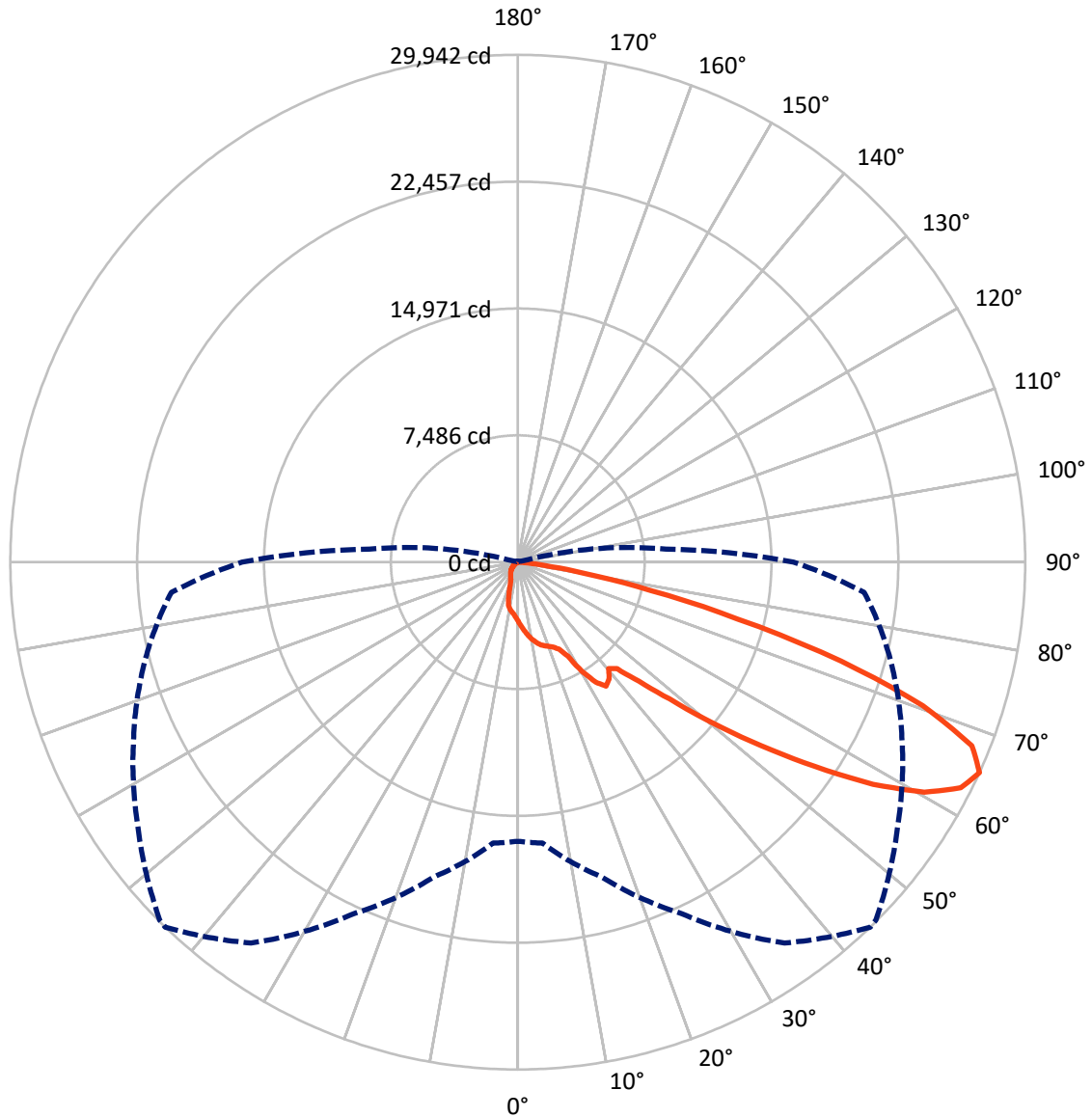
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3445.9	0.0	3445.9
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	33955.1	0.0	33955.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	37401.0	0.0	37401.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.2	0.9
10°-20°	1042.0	2.8
20°-30°	1766.8	4.7
30°-40°	2937.7	7.9
40°-50°	5129.2	13.7
50°-60°	10020.7	26.8
60°-70°	11626.3	31.1
70°-80°	4233.7	11.3
80°-90°	298.3	0.8
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°	37401.0	100.0
0°-180°	37401.0	100.0



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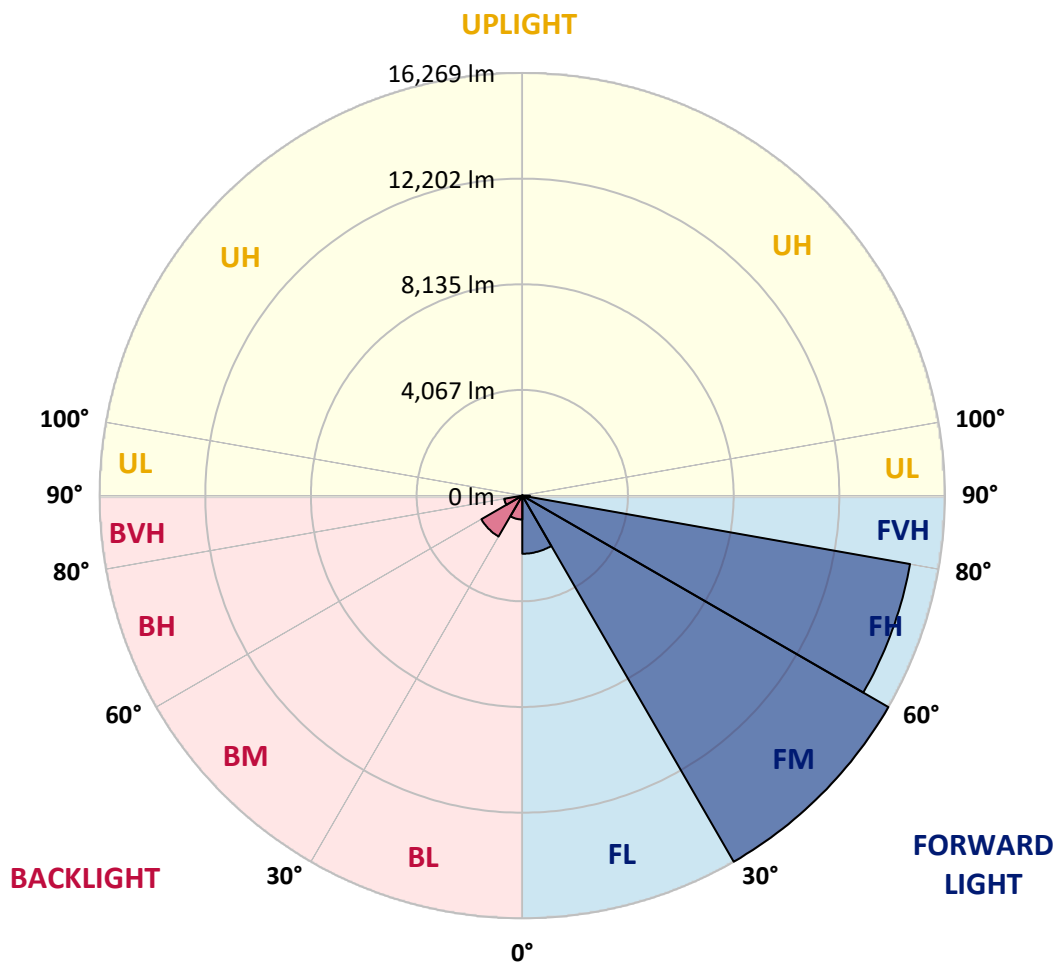
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2236.9	6.0			
FM	(30°-60°)	16269.5	43.5			
FH	(60°-80°)	15154.4	40.5			G5
FVH	(80°-90°)	294.3	0.8			G3/500
BL	(0°-30°)	918.1	2.5	B2/1000		
BM	(30°-60°)	1818.1	4.9	B2/2500		
BH	(60°-80°)	705.7	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9
2.5°	3918.2	3901.0	3892.5	3846.7	3812.4	3769.6	3769.6	3715.3	3652.4	3583.8	3520.9
5°	4355.4	4326.9	4289.7	4249.7	4169.7	4055.4	4055.4	3941.0	3809.6	3692.4	3563.8
7.5°	4775.5	4749.8	4686.9	4609.8	4478.3	4358.3	4349.7	4184.0	4026.8	3849.6	3666.7
10°	5144.2	5124.2	5069.9	4921.3	4784.1	4626.9	4624.1	4438.3	4255.4	4038.2	3812.4
12.5°	5401.4	5404.3	5332.8	5189.9	5012.8	4864.1	4852.7	4669.8	4478.3	4244.0	3966.8
15°	5584.3	5584.3	5510.0	5350.0	5189.9	5058.5	5047.0	4887.0	4689.8	4435.5	4135.4
17.5°	5635.8	5652.9	5572.9	5430.0	5301.4	5187.1	5184.2	5049.9	4892.7	4646.9	4306.8
20°	5615.8	5632.9	5570.0	5458.6	5370.0	5304.3	5295.7	5241.4	5095.6	4864.1	4489.8
22.5°	5572.9	5590.0	5544.3	5478.6	5435.7	5455.7	5441.4	5487.2	5410.0	5129.9	4707.0
25°	5581.5	5598.6	5564.3	5527.2	5564.3	5687.2	5724.4	5921.6	5853.0	5467.2	4941.3
27.5°	5850.1	5884.4	5835.8	5853.0	5984.4	6270.2	6341.7	6681.8	6378.8	5895.8	5307.1
30°	6447.4	6424.6	6333.1	6416.0	6873.2	7479.1	7459.1	7404.8	6930.4	6390.3	5741.5
32.5°	6990.4	6970.4	6964.7	7321.9	8150.7	8445.1	8430.8	7904.9	7424.8	6956.1	6170.2
35°	7210.5	7133.3	7116.2	7982.1	9368.2	8979.5	8890.9	8110.7	8025.0	7573.4	6607.5
37.5°	7873.5	7819.2	7553.4	8090.7	8882.3	8753.7	8685.1	8465.1	8665.1	8119.3	7101.9
40°	9239.6	9088.1	8848.0	8322.2	8193.6	8247.9	8316.5	8919.5	9422.5	8865.2	7762.0
42.5°	10937.2	10902.9	10457.0	9476.8	8513.7	8588.0	8676.6	9868.3	10511.3	9988.3	8839.5
45°	12974.8	13023.4	12380.4	11223.0	9959.8	10022.6	10151.2	11268.7	11986.0	11734.5	10534.2
47.5°	14826.8	14789.6	14572.4	13369.2	12203.2	12063.2	12271.8	13066.3	14026.6	14066.6	12637.6
50°	16690.1	16887.3	16564.4	16092.8	15226.9	14932.5	14855.3	15244.0	16707.3	16515.8	15164.0
52.5°	19368.0	19470.8	18865.0	18744.9	18942.1	17987.6	17910.4	18004.7	19313.7	18656.3	17055.9
55°	21051.3	20991.2	20765.5	21702.9	22483.1	21291.3	21194.2	20814.1	21477.1	20168.2	18876.4
57.5°	21582.8	21668.6	22194.4	23889.2	25735.4	24723.7	24546.5	23466.2	23037.5	21577.1	20551.1
60°	21345.6	21502.8	22637.4	25158.1	27718.7	27567.3	27415.8	25601.0	24157.8	22754.6	21725.7
62.5°	19656.6	19876.7	21691.4	24932.3	28390.3	29336.3	29147.7	26932.8	24903.7	23326.1	21931.5
65°	16472.9	16635.8	19242.2	22883.2	27435.8	29942.2	29873.6	27350.1	25020.9	22803.2	20522.6
67.5°	11743.1	12297.5	14712.5	19285.1	24612.2	28907.6	29024.8	26849.9	23920.6	20542.6	16995.9
70°	7381.9	7759.2	9491.1	13806.5	19730.9	25361.0	25746.8	24560.8	20759.8	16012.8	11377.3
72.5°	3520.9	3801.0	5035.6	8739.4	13926.5	19953.8	20259.6	20162.5	16052.8	10088.4	5870.1
75°	1569.0	1674.7	2403.5	4461.2	8990.9	13412.1	14203.7	14335.2	10031.2	4935.6	2283.5
77.5°	800.2	803.1	1126.0	2160.6	4489.8	8002.1	8159.3	8619.4	5438.6	2174.9	794.5
80°	425.8	454.4	597.3	1020.3	2329.2	3941.0	3921.0	4309.7	2412.1	1066.0	265.8
82.5°	191.5	211.5	337.2	534.4	1137.4	1494.7	1611.9	1763.3	1034.6	680.2	117.2
85°	57.2	68.6	165.8	268.6	411.5	431.5	483.0	623.0	585.9	483.0	60.0
87.5°	8.6	8.6	68.6	74.3	60.0	77.2	80.0	88.6	188.6	177.2	31.4
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°	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9
2.5°	3486.6	3466.6	3395.2	3335.2	3283.7	3252.3	3215.1	3192.3	3180.8	3172.3	3175.1
5°	3500.9	3452.3	3329.4	3232.3	3158.0	3078.0	3023.7	2992.2	2977.9	2955.1	2955.1
7.5°	3580.9	3503.8	3332.3	3183.7	3055.1	2946.5	2843.6	2806.5	2780.7	2775.0	2769.3
10°	3695.3	3598.1	3363.7	3158.0	2975.1	2826.5	2680.7	2552.1	2452.1	2392.1	2383.5
12.5°	3838.2	3698.1	3412.3	3140.8	2906.5	2643.6	2257.7	1997.7	1823.3	1769.0	1777.6
15°	3969.6	3818.1	3460.9	3126.5	2780.7	2192.0	1754.7	1457.5	1368.9	1360.4	1363.2
17.5°	4126.8	3946.8	3518.1	3106.5	2434.9	1674.7	1303.2	1223.2	1240.3	1268.9	1266.0
20°	4289.7	4083.9	3586.7	2986.5	1943.4	1260.3	1151.7	1160.3	1186.0	1211.7	1217.5
22.5°	4464.0	4241.1	3666.7	2697.9	1483.2	1097.4	1091.7	1103.1	1128.9	1157.4	1163.2
25°	4704.1	4438.3	3726.7	2320.6	1123.2	1014.6	1026.0	1046.0	1068.9	1100.3	1106.0
27.5°	5012.8	4704.1	3758.1	1829.1	971.7	940.2	943.1	971.7	1000.3	1028.8	1028.8
30°	5412.9	5021.3	3695.3	1383.2	897.4	868.8	857.4	874.5	911.7	940.2	943.1
32.5°	5770.1	5321.4	3529.5	1057.4	843.1	803.1	774.5	777.3	791.6	808.8	811.6
35°	6127.3	5612.9	3246.6	888.8	785.9	740.2	697.3	674.5	663.0	654.5	663.0
37.5°	6584.6	5975.9	2869.3	808.8	737.3	680.2	620.2	571.6	531.6	505.8	511.6
40°	7173.3	6478.9	2423.5	757.3	691.6	623.0	543.0	480.1	411.5	388.7	377.2
42.5°	8145.0	7241.9	1954.8	714.5	645.9	563.0	463.0	377.2	314.4	291.5	297.2
45°	9679.7	8205.0	1506.1	668.7	600.2	497.3	388.7	297.2	245.8	234.3	240.1
47.5°	11714.5	9451.1	1160.3	617.3	543.0	425.8	305.8	234.3	202.9	200.1	197.2
50°	13629.3	10611.4	968.8	560.1	474.4	354.4	251.5	197.2	177.2	174.3	174.3
52.5°	15361.2	11443.0	788.8	494.4	400.1	291.5	211.5	174.3	157.2	148.6	148.6
55°	16901.6	11986.0	640.2	414.4	314.4	231.5	182.9	157.2	137.2	125.7	122.9
57.5°	18064.8	12051.7	480.1	331.5	234.3	180.0	157.2	137.2	114.3	100.0	94.3
60°	18562.0	11483.0	354.4	251.5	174.3	142.9	125.7	111.5	85.7	71.4	68.6
62.5°	18061.9	10377.0	262.9	191.5	134.3	105.7	88.6	82.9	60.0	42.9	40.0
65°	16270.0	8779.5	208.6	145.8	100.0	77.2	57.2	54.3	37.2	20.0	17.1
67.5°	13034.9	6876.1	165.8	108.6	71.4	51.4	37.2	34.3	20.0	5.7	5.7
70°	8476.5	4395.4	134.3	80.0	45.7	34.3	22.9	17.1	11.4	2.9	0.0
72.5°	4192.5	2054.8	108.6	62.9	31.4	17.1	8.6	5.7	8.6	0.0	0.0
75°	1626.1	731.6	80.0	42.9	17.1	8.6	5.7	0.0	2.9	0.0	0.0
77.5°	540.1	242.9	48.6	22.9	11.4	5.7	0.0	0.0	0.0	0.0	0.0
80°	200.1	94.3	25.7	14.3	5.7	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	80.0	37.2	17.1	11.4	5.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.0	22.9	11.4	8.6	5.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.6	17.1	11.4	8.6	5.7	2.9	0.0	0.0	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)