

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: P453275

Luminaire Tested: **GALN-SA4B-740-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22034 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

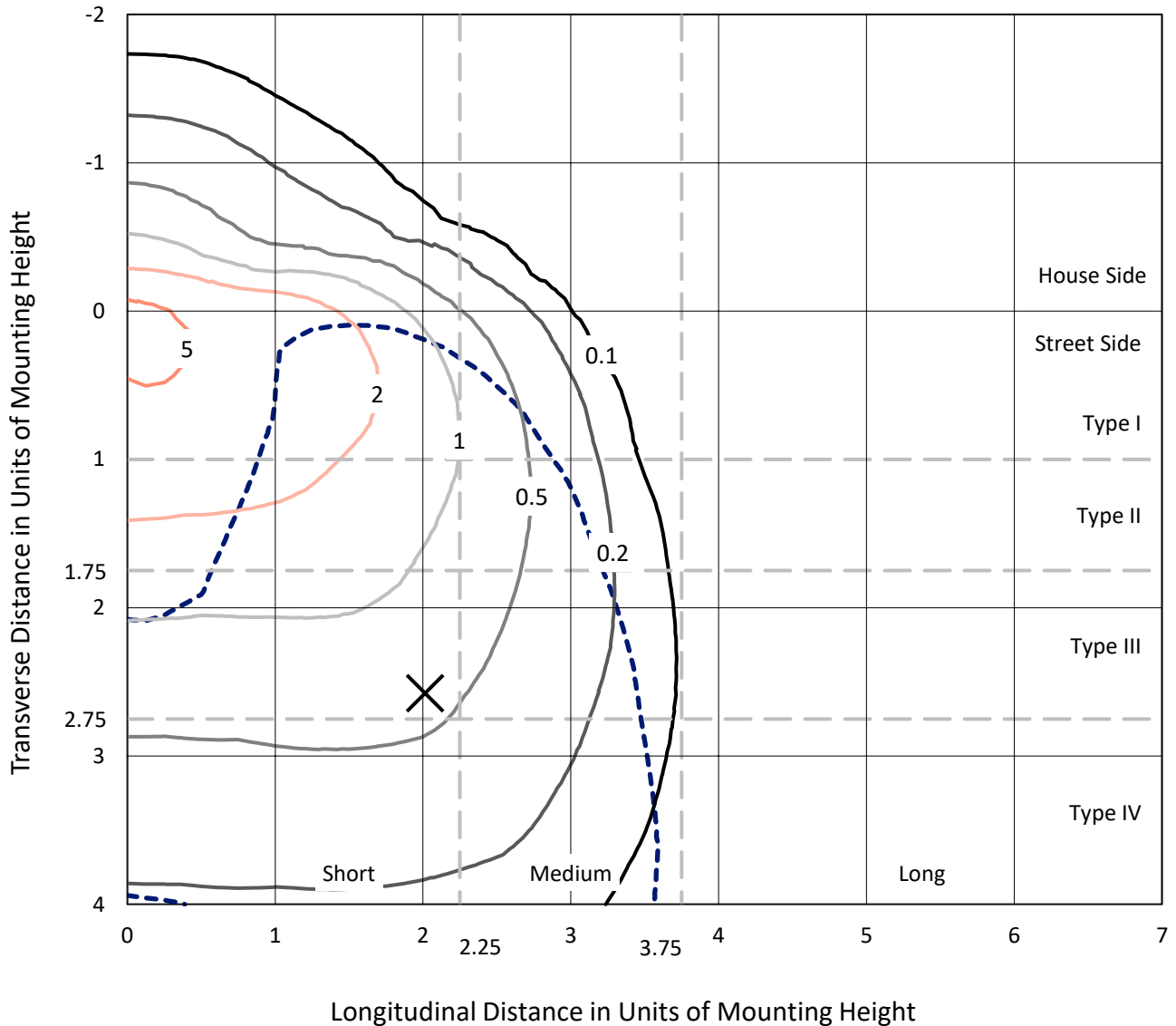
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453275
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Iso-Footcandle Lines of Horizontal Illumination

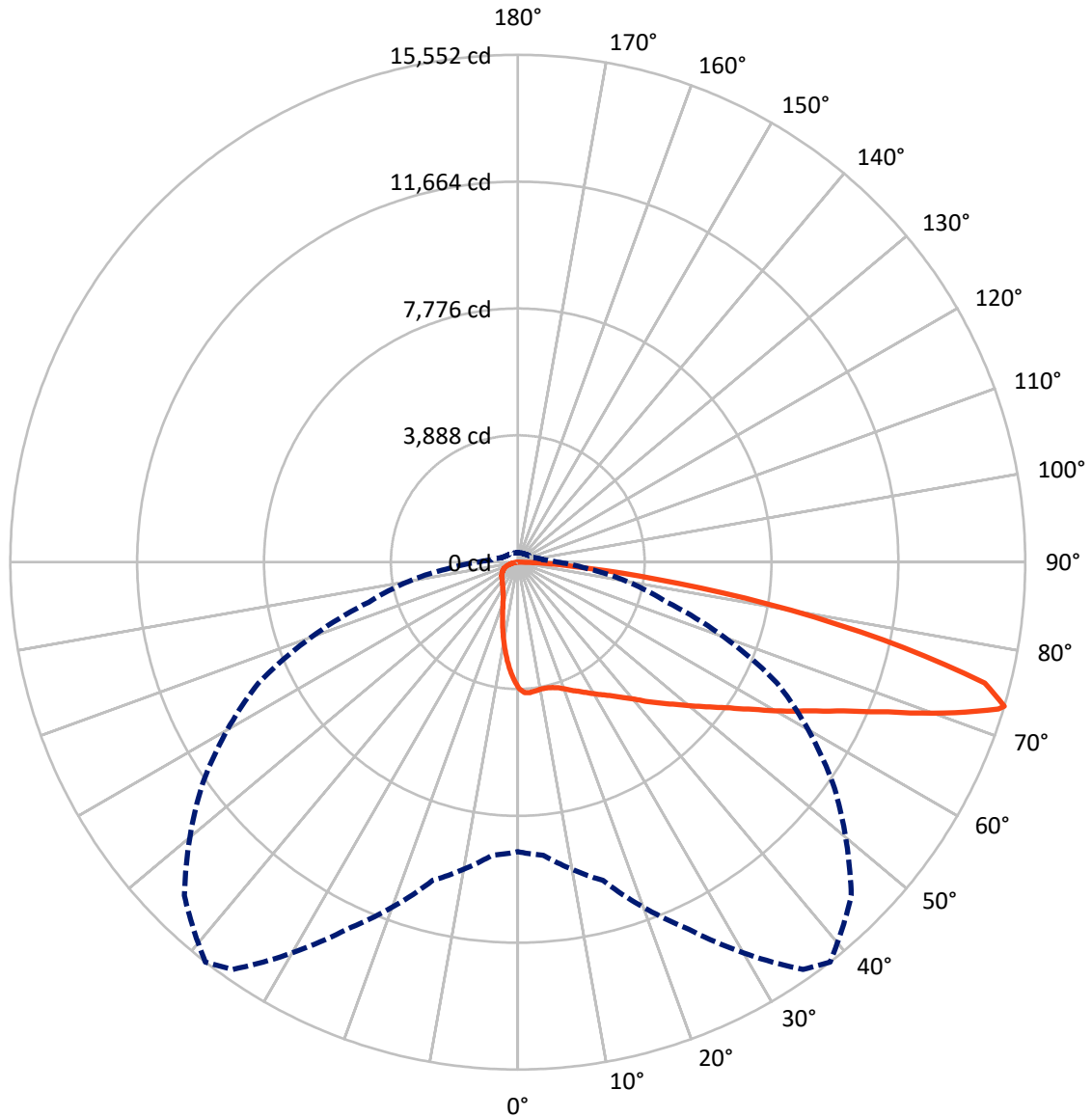
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P453275
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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2962.0	0.0	2962.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	19072.0	0.0	19072.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	22034.0	0.0	22034.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.9	1.5
10°-20°	866.5	3.9
20°-30°	1349.3	6.1
30°-40°	1979.1	9.0
40°-50°	2935.7	13.3
50°-60°	4159.3	18.9
60°-70°	5276.2	23.9
70°-80°	4392.1	19.9
80°-90°	737.9	3.3
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°	22034.0	100.0
0°-180°	22034.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453275

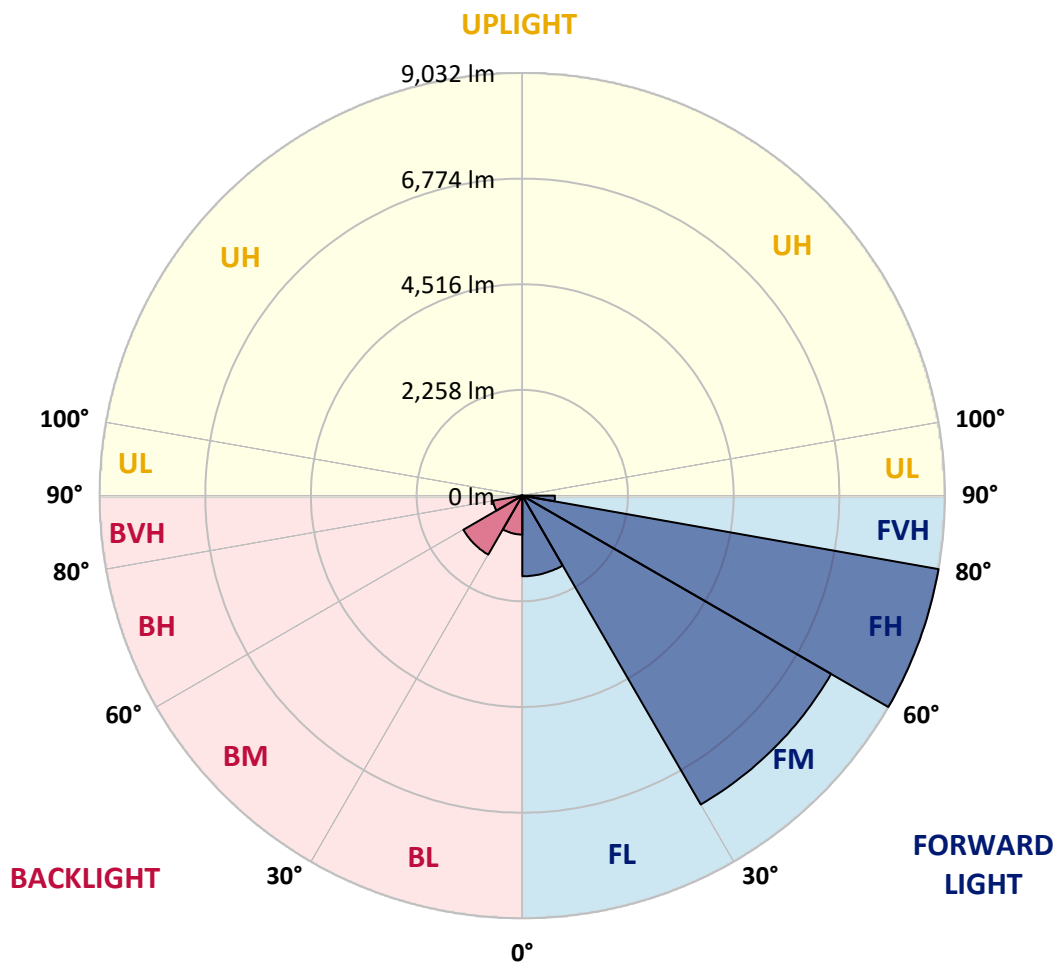
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1722.5	7.8			
FM	(30°-60°)	7620.0	34.6			
FH	(60°-80°)	9031.6	41.0			G4/12000
FVH	(80°-90°)	697.9	3.2			G4/750
BL	(0°-30°)	831.2	3.8	B2/1000		
BM	(30°-60°)	1454.2	6.6	B2/2500		
BH	(60°-80°)	636.7	2.9	B2/1000		G2/1000
BVH	(80°-90°)	40.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P453275

CATALOG NUMBER: GALN-SA4B-740-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3871.0	3871.0	3871.0	3871.0	3871.0	3871.0	3871.0	3871.0	3871.0	3871.0	3871.0
2.5°	4026.5	4046.4	4036.5	4022.8	4014.1	4005.4	3992.9	3956.9	3928.2	3897.1	3848.6
5°	4056.4	4068.8	4060.1	4042.7	4022.8	4014.1	3990.5	3943.2	3897.1	3844.9	3772.7
7.5°	4039.0	4044.0	4034.0	4012.8	3995.4	3979.3	3951.9	3899.6	3843.6	3780.2	3685.6
10°	3976.8	3995.4	3995.4	3978.0	3960.6	3951.9	3924.5	3874.7	3823.7	3751.5	3639.6
12.5°	3925.7	3945.7	3961.8	3956.9	3955.6	3955.6	3934.5	3897.1	3837.4	3769.0	3635.8
15°	3890.9	3914.6	3949.4	3969.3	3981.7	3985.5	3976.8	3944.4	3883.4	3803.8	3650.8
17.5°	3883.4	3912.1	3975.5	4019.1	4051.4	4050.2	4047.7	4002.9	3935.7	3853.6	3669.4
20°	3917.0	3954.4	4042.7	4111.1	4158.4	4149.7	4136.0	4077.6	3999.2	3907.1	3686.8
22.5°	4017.8	4056.4	4153.5	4228.1	4274.2	4274.2	4233.1	4155.9	4072.6	3969.3	3710.5
25°	4162.2	4204.5	4307.7	4383.6	4404.8	4388.6	4347.6	4254.2	4158.4	4058.9	3760.3
27.5°	4338.9	4389.9	4485.7	4549.1	4542.9	4530.5	4488.2	4368.7	4272.9	4182.1	3844.9
30°	4559.1	4596.4	4696.0	4710.9	4688.5	4686.0	4626.3	4506.8	4417.2	4347.6	3965.6
32.5°	4766.9	4800.5	4880.1	4886.3	4846.5	4851.5	4795.5	4686.0	4635.0	4610.1	4168.4
35°	4987.1	5004.6	5073.0	5065.5	5039.4	5035.7	5013.3	4908.7	4924.9	4969.7	4455.8
37.5°	5171.3	5206.1	5244.7	5250.9	5249.7	5262.1	5277.1	5227.3	5320.6	5461.2	4832.8
40°	5340.5	5370.4	5427.6	5447.5	5496.0	5520.9	5572.0	5573.2	5788.5	6019.9	5297.0
42.5°	5455.0	5506.0	5613.0	5649.1	5767.3	5842.0	5917.9	5998.7	6311.1	6608.4	5844.5
45°	5554.5	5621.7	5799.7	5911.6	6072.2	6163.0	6323.5	6492.7	6941.9	7331.4	6400.7
47.5°	5705.1	5764.8	5968.9	6166.7	6409.4	6513.9	6754.0	7006.6	7593.9	8020.7	6933.2
50°	5914.1	5950.2	6158.0	6480.3	6790.1	6924.5	7241.8	7606.4	8290.7	8701.4	7401.1
52.5°	6181.7	6196.6	6362.1	6791.4	7199.5	7366.2	7786.8	8212.3	8900.4	9292.4	7771.9
55°	6497.7	6472.8	6602.2	7121.1	7667.3	7885.1	8336.8	8825.8	9586.0	9770.2	8041.9
57.5°	6810.0	6771.5	6874.7	7521.8	8244.7	8507.2	9033.6	9457.9	10198.2	10216.9	8231.0
60°	7141.0	7112.4	7235.6	7992.1	8952.7	9263.8	9750.3	10113.6	10790.5	10528.0	8260.9
62.5°	7480.7	7434.7	7610.1	8520.9	9750.3	10032.7	10504.3	10810.4	11371.6	10643.7	7973.4
65°	7810.4	7789.3	8060.5	9149.3	10658.6	10979.7	11437.6	11645.4	11837.0	10469.5	7260.5
67.5°	8161.3	8203.6	8636.6	9988.0	11843.2	12246.3	12740.3	12545.0	11970.1	9644.5	6114.5
70°	8696.4	8723.7	9393.2	11086.7	13369.9	13856.5	14095.4	12864.8	11328.1	8078.0	4596.4
72.5°	8926.6	9047.3	10068.8	12240.1	15104.5	15401.9	14550.8	12151.8	9436.7	5487.3	2415.2
73°	8875.6	9019.9	10099.9	12415.6	15240.1	15552.4	14453.7	11784.7	8772.3	4725.8	2070.5
75°	8239.7	8417.7	9695.5	12268.7	14976.3	14789.7	12893.4	10043.9	5927.8	2148.9	943.2
77.5°	6501.4	6552.5	7682.3	9907.1	11793.4	11447.5	9649.5	6277.5	2421.4	798.8	535.0
80°	3261.3	3449.2	4330.1	5675.2	7886.3	7773.1	6090.8	2968.9	1009.1	469.1	354.6
82.5°	1569.1	1702.2	2109.1	2767.3	4357.5	4254.2	3016.2	1622.6	640.8	273.7	209.0
85°	1010.4	1109.9	1342.6	1320.2	1791.8	1710.9	1355.0	1228.1	379.5	143.1	145.6
87.5°	666.9	730.4	876.0	700.5	652.0	589.8	598.5	691.8	74.7	54.7	19.9
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°	3871.0	3871.0	3871.0	3871.0	3871.0	3871.0	3871.0	3871.0	3871.0	3871.0	3871.0
2.5°	3828.7	3812.5	3759.0	3706.8	3657.0	3609.7	3578.6	3537.5	3510.2	3517.6	3528.8
5°	3732.9	3696.8	3602.2	3510.2	3423.1	3319.8	3236.4	3169.2	3118.2	3099.5	3095.8
7.5°	3632.1	3571.1	3435.5	3277.5	3129.4	3001.2	2853.2	2779.8	2693.9	2664.0	2654.1
10°	3571.1	3489.0	3298.6	3078.4	2855.7	2642.9	2482.4	2351.7	2233.5	2211.1	2199.9
12.5°	3553.7	3445.5	3189.1	2905.4	2609.3	2348.0	2110.3	1938.6	1824.1	1798.0	1759.4
15°	3543.8	3409.4	3087.1	2731.2	2355.4	2036.9	1786.8	1586.5	1482.0	1412.3	1413.5
17.5°	3535.0	3368.3	2972.6	2540.8	2136.5	1769.4	1493.2	1312.7	1216.9	1179.6	1175.9
20°	3522.6	3319.8	2840.7	2340.5	1886.4	1525.5	1275.4	1141.0	1076.3	1045.2	1044.0
22.5°	3517.6	3272.5	2711.3	2136.5	1664.9	1337.6	1131.1	1036.5	995.4	974.3	974.3
25°	3530.1	3238.9	2575.7	1942.3	1468.3	1177.1	1031.5	966.8	943.2	932.0	928.2
27.5°	3568.6	3224.0	2441.3	1748.2	1287.8	1067.6	964.3	919.5	902.1	893.4	894.6
30°	3642.1	3222.7	2309.4	1556.6	1153.5	984.2	910.8	879.7	866.0	861.1	859.8
32.5°	3760.3	3250.1	2180.0	1398.6	1040.2	914.6	861.1	838.7	832.4	828.7	827.5
35°	3960.6	3327.2	2051.8	1254.2	953.1	852.3	813.8	802.6	793.9	797.6	798.8
37.5°	4230.6	3460.4	1929.9	1141.0	887.2	806.3	774.0	764.0	759.0	762.8	766.5
40°	4592.7	3652.0	1827.9	1050.2	839.9	767.7	739.1	730.4	725.4	731.6	732.9
42.5°	4992.1	3873.5	1743.3	979.3	801.3	735.4	708.0	698.0	694.3	698.0	699.3
45°	5402.7	4131.1	1699.7	928.2	769.0	711.7	683.1	671.9	663.2	660.7	664.5
47.5°	5807.1	4355.0	1698.5	897.1	742.8	690.6	659.5	647.0	635.8	629.6	628.4
50°	6136.9	4533.0	1728.3	883.4	720.4	666.9	635.8	623.4	608.5	596.0	598.5
52.5°	6385.7	4648.7	1742.0	877.2	708.0	642.1	610.9	599.7	582.3	566.2	566.2
55°	6546.2	4676.1	1708.4	871.0	698.0	615.9	582.3	572.4	555.0	538.8	538.8
57.5°	6601.0	4591.4	1587.7	856.1	688.1	593.5	553.7	545.0	531.3	515.1	512.6
60°	6474.1	4305.3	1376.2	811.3	668.2	569.9	522.6	518.9	513.9	500.2	499.0
62.5°	5985.1	3698.0	1146.0	752.8	634.6	545.0	494.0	500.2	503.9	496.5	495.2
65°	5171.3	3002.5	979.3	671.9	589.8	510.2	462.9	479.1	489.0	489.0	486.5
67.5°	4194.5	2305.7	825.0	602.2	533.8	462.9	428.0	440.5	447.9	445.5	451.7
70°	2981.3	1561.6	671.9	522.6	462.9	409.4	383.2	383.2	378.3	375.8	375.8
72.5°	1445.9	892.2	545.0	436.7	394.4	349.6	328.5	319.8	309.8	308.6	302.4
73°	1208.2	800.1	520.1	420.6	378.3	340.9	317.3	303.6	297.4	292.4	291.2
75°	735.4	607.2	434.3	354.6	322.3	293.7	272.5	260.1	253.8	250.1	248.9
77.5°	484.0	452.9	337.2	271.3	246.4	229.0	220.2	207.8	204.1	199.1	199.1
80°	360.8	345.9	241.4	191.6	176.7	161.8	159.3	156.8	146.8	140.6	138.1
82.5°	232.7	246.4	164.2	128.2	112.0	99.5	100.8	104.5	94.6	85.9	83.4
85°	165.5	177.9	99.5	58.5	47.3	41.1	46.0	41.1	42.3	33.6	27.4
87.5°	27.4	47.3	17.4	7.5	3.7	2.5	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)