

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: P453971

Luminaire Tested: **GALN-SA5A-740-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453971
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-SA5A-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA 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: 22417 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

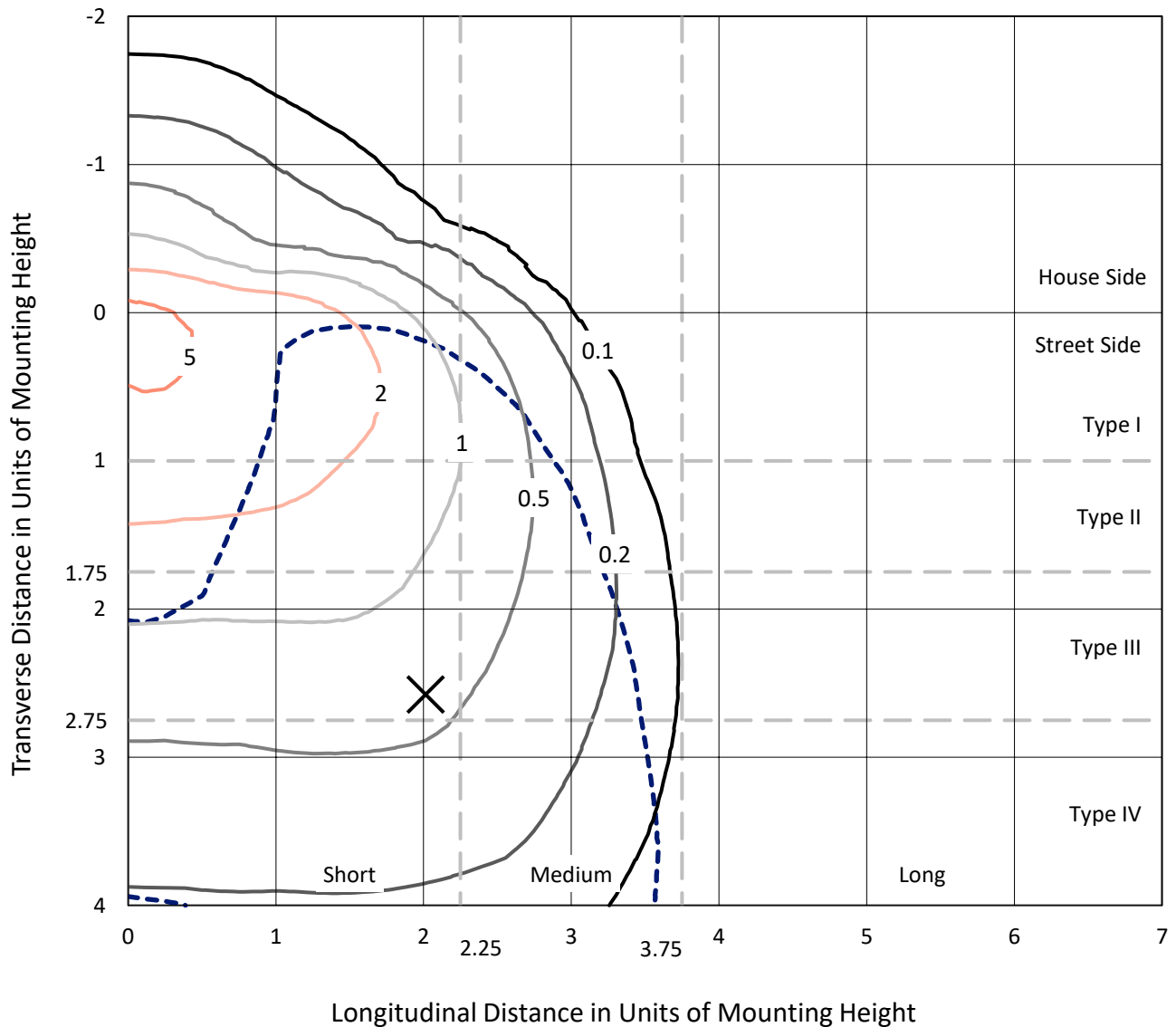
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

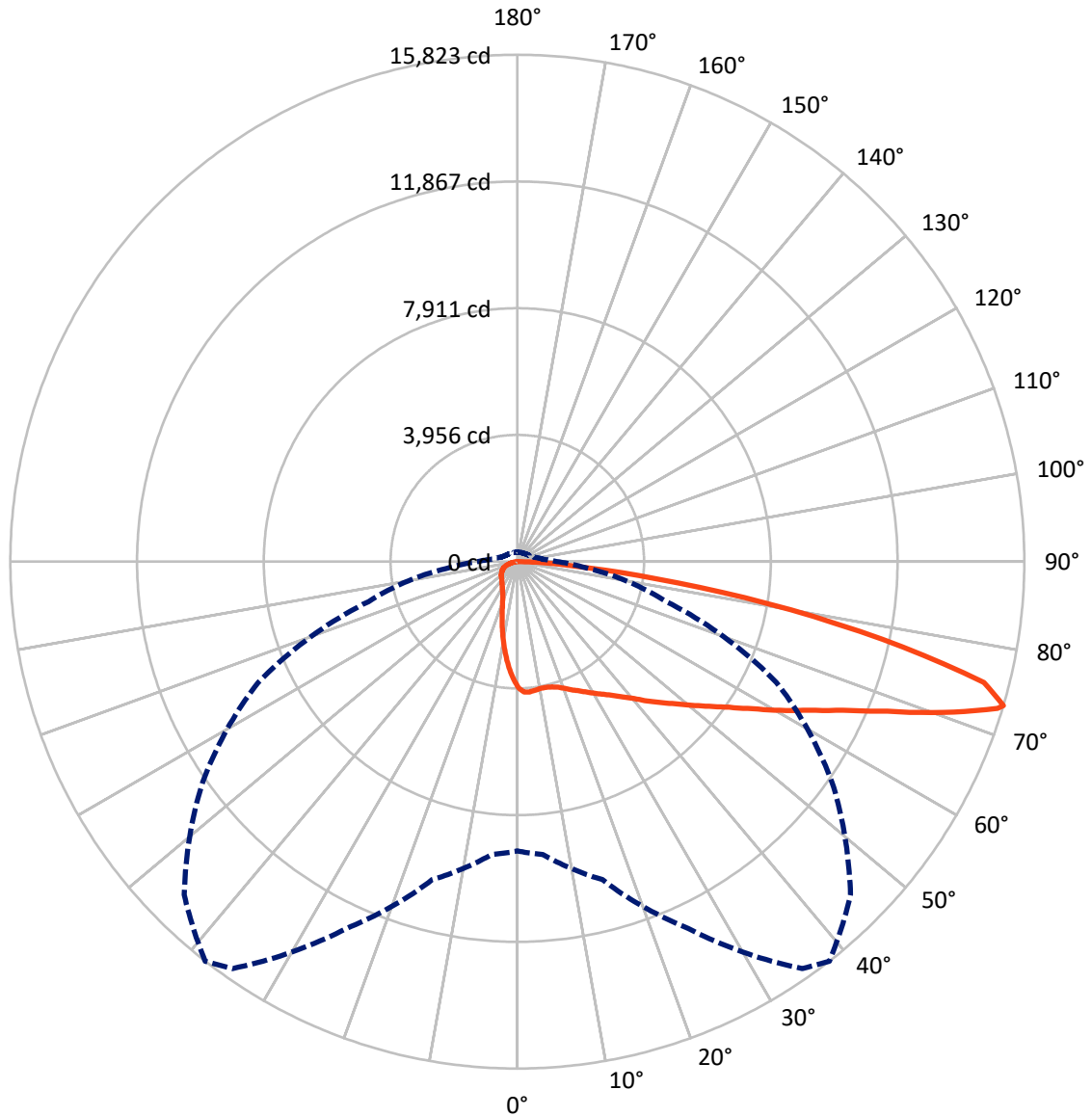
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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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	3013.5	0.0	3013.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	19403.5	0.0	19403.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	22417.0	0.0	22417.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.8	1.5
10°-20°	881.5	3.9
20°-30°	1372.7	6.1
30°-40°	2013.5	9.0
40°-50°	2986.7	13.3
50°-60°	4231.6	18.9
60°-70°	5368.0	23.9
70°-80°	4468.4	19.9
80°-90°	750.8	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°	22417.0	100.0
0°-180°	22417.0	100.0

Coefficient of Utilization



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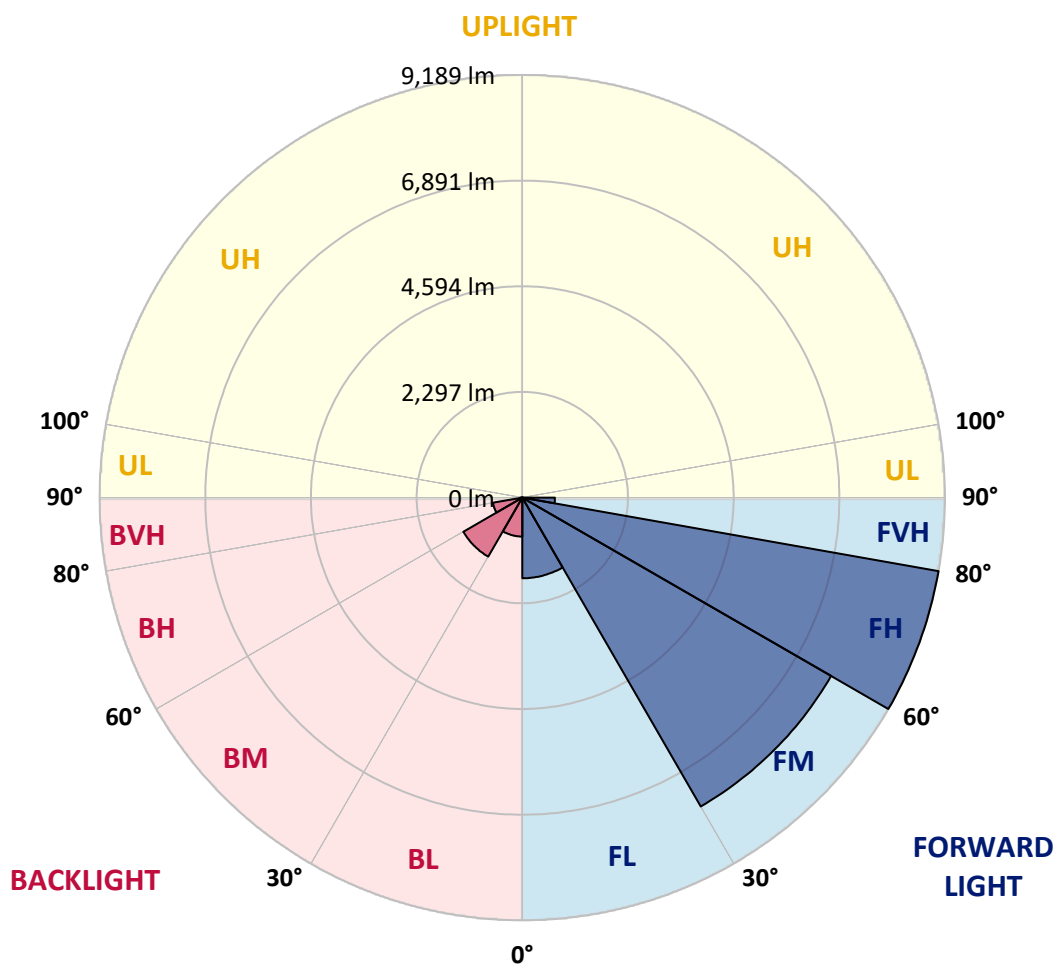
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1752.4	7.8			
FM (30°-60°)	7752.4	34.6			
FH (60°-80°)	9188.6	41.0			G4/12000
FVH (80°-90°)	710.1	3.2			G4/750
BL (0°-30°)	845.6	3.8	B2/1000		
BM (30°-60°)	1479.5	6.6	B2/2500		
BH (60°-80°)	647.7	2.9	B2/1000		G2/1000
BVH (80°-90°)	40.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3938.3	3938.3	3938.3	3938.3	3938.3	3938.3	3938.3	3938.3	3938.3	3938.3	3938.3
2.5°	4096.5	4116.8	4106.7	4092.7	4083.9	4075.0	4062.3	4025.6	3996.5	3964.9	3915.5
5°	4126.9	4139.6	4130.7	4113.0	4092.7	4083.9	4059.8	4011.7	3964.9	3911.7	3838.3
7.5°	4109.2	4114.3	4104.1	4082.6	4064.9	4048.4	4020.6	3967.4	3910.4	3845.9	3749.7
10°	4045.9	4064.9	4064.9	4047.2	4029.4	4020.6	3992.7	3942.1	3890.2	3816.8	3702.8
12.5°	3994.0	4014.2	4030.7	4025.6	4024.4	4024.4	4002.8	3964.9	3904.1	3834.5	3699.0
15°	3958.5	3982.6	4018.0	4038.3	4051.0	4054.8	4045.9	4013.0	3950.9	3869.9	3714.2
17.5°	3950.9	3980.1	4044.6	4088.9	4121.8	4120.6	4118.0	4072.5	4004.1	3920.6	3733.2
20°	3985.1	4023.1	4113.0	4182.6	4230.7	4221.9	4207.9	4148.4	4068.7	3975.0	3750.9
22.5°	4087.7	4126.9	4225.7	4301.6	4348.4	4348.4	4306.7	4228.2	4143.4	4038.3	3775.0
25°	4234.5	4277.6	4382.6	4459.8	4481.4	4464.9	4423.1	4328.2	4230.7	4129.4	3825.6
27.5°	4414.3	4466.2	4563.7	4628.2	4621.9	4609.2	4566.2	4444.7	4347.2	4254.8	3911.7
30°	4638.3	4676.3	4777.6	4792.8	4770.0	4767.5	4706.7	4585.2	4494.0	4423.1	4034.5
32.5°	4849.8	4883.9	4965.0	4971.3	4930.8	4935.8	4878.9	4767.5	4715.6	4690.2	4240.8
35°	5073.8	5091.5	5161.2	5153.6	5127.0	5123.2	5100.4	4994.1	5010.5	5056.1	4533.3
37.5°	5261.2	5296.6	5335.9	5342.2	5340.9	5353.6	5368.8	5318.1	5413.1	5556.1	4916.8
40°	5433.3	5463.7	5522.0	5542.2	5591.6	5616.9	5668.8	5670.1	5889.1	6124.5	5389.0
42.5°	5549.8	5601.7	5710.6	5747.3	5867.6	5943.5	6020.7	6103.0	6420.8	6723.3	5946.0
45°	5651.1	5719.4	5900.5	6014.4	6177.7	6270.1	6433.4	6605.6	7062.6	7458.8	6511.9
47.5°	5804.3	5865.0	6072.6	6273.9	6520.8	6627.1	6871.4	7128.4	7725.9	8160.1	7053.7
50°	6016.9	6053.6	6265.1	6592.9	6908.1	7044.9	7367.7	7738.6	8434.8	8852.6	7529.7
52.5°	6289.1	6304.3	6472.7	6909.4	7324.6	7494.3	7922.1	8355.1	9055.1	9453.9	7907.0
55°	6610.7	6585.3	6717.0	7244.9	7800.6	8022.2	8481.7	8979.2	9752.7	9940.0	8181.7
57.5°	6928.4	6889.2	6994.2	7652.5	8388.0	8655.1	9190.6	9622.3	10375.5	10394.5	8374.1
60°	7265.1	7236.0	7361.3	8131.0	9108.3	9424.8	9919.8	10289.4	10978.1	10711.0	8404.5
62.5°	7610.7	7563.9	7742.4	8669.0	9919.8	10207.1	10686.9	10998.3	11569.3	10828.7	8112.0
65°	7946.2	7924.7	8200.7	9308.3	10843.9	11170.5	11636.4	11847.8	12042.7	10651.5	7386.7
67.5°	8303.2	8346.2	8786.8	10161.6	12049.1	12459.2	12961.8	12763.0	12178.2	9812.2	6220.7
70°	8847.5	8875.4	9556.5	11279.4	13602.3	14097.3	14340.4	13088.4	11525.0	8218.4	4676.3
72.5°	9081.7	9204.5	10243.9	12452.9	15367.0	15669.6	14803.7	12363.0	9600.8	5582.7	2457.2
73°	9029.8	9176.7	10275.5	12631.4	15505.0	15822.8	14705.0	11989.6	8924.8	4808.0	2106.5
75°	8382.9	8564.0	9864.1	12482.0	15236.7	15046.8	13117.5	10218.5	6030.9	2186.2	959.6
77.5°	6614.4	6666.4	7815.8	10079.3	11998.4	11646.5	9817.2	6386.6	2463.5	812.7	544.3
80°	3318.0	3509.1	4405.4	5773.9	8023.4	7908.2	6196.7	3020.5	1026.7	477.3	360.8
82.5°	1596.3	1731.8	2145.7	2815.4	4433.3	4328.2	3068.6	1650.8	652.0	278.5	212.7
85°	1027.9	1129.2	1365.9	1343.1	1822.9	1740.6	1378.6	1249.5	386.1	145.6	148.1
87.5°	678.5	743.1	891.2	712.7	663.3	600.0	608.9	703.9	76.0	55.7	20.3
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°	3938.3	3938.3	3938.3	3938.3	3938.3	3938.3	3938.3	3938.3	3938.3	3938.3	3938.3
2.5°	3895.2	3878.8	3824.4	3771.2	3720.5	3672.4	3640.8	3599.0	3571.2	3578.8	3590.2
5°	3797.8	3761.1	3664.8	3571.2	3482.6	3377.5	3292.7	3224.3	3172.4	3153.4	3149.6
7.5°	3695.2	3633.2	3495.2	3334.4	3183.8	3053.4	2902.8	2828.1	2740.7	2710.3	2700.2
10°	3633.2	3549.6	3356.0	3131.9	2905.3	2688.8	2525.5	2392.6	2272.3	2249.5	2238.2
12.5°	3615.5	3505.3	3244.6	2955.9	2654.6	2388.8	2147.0	1972.3	1855.8	1829.3	1790.0
15°	3605.3	3468.6	3140.8	2778.7	2396.4	2072.3	1817.9	1614.1	1507.7	1436.8	1438.1
17.5°	3596.5	3426.9	3024.3	2585.0	2173.6	1800.1	1519.1	1335.5	1238.1	1200.1	1196.3
20°	3583.8	3377.5	2890.1	2381.2	1919.1	1552.0	1297.6	1160.9	1095.0	1063.4	1062.1
22.5°	3578.8	3329.4	2758.4	2173.6	1693.8	1360.9	1150.7	1054.5	1012.7	991.2	991.2
25°	3591.4	3295.2	2620.5	1976.1	1493.8	1197.6	1049.5	983.6	959.6	948.2	944.4
27.5°	3630.7	3280.0	2483.7	1778.6	1310.2	1086.2	981.1	935.5	917.8	908.9	910.2
30°	3705.4	3278.7	2349.6	1583.7	1173.5	1001.3	926.7	895.0	881.1	876.0	874.8
32.5°	3825.6	3306.6	2217.9	1422.9	1058.3	930.5	876.0	853.2	846.9	843.1	841.8
35°	4029.4	3385.1	2087.5	1276.1	969.7	867.2	827.9	816.5	807.7	811.5	812.7
37.5°	4304.1	3520.5	1963.4	1160.9	902.6	820.3	787.4	777.3	772.2	776.0	779.8
40°	4672.5	3715.5	1859.6	1068.4	854.5	781.1	752.0	743.1	738.0	744.4	745.6
42.5°	5078.9	3940.8	1773.6	996.3	815.3	748.2	720.3	710.2	706.4	710.2	711.4
45°	5496.6	4202.9	1729.3	944.4	782.3	724.1	695.0	683.6	674.7	672.2	676.0
47.5°	5908.1	4430.7	1728.0	912.7	755.8	702.6	670.9	658.3	646.9	640.6	639.3
50°	6243.5	4611.8	1758.4	898.8	733.0	678.5	646.9	634.2	619.0	606.4	608.9
52.5°	6496.7	4729.5	1772.3	892.5	720.3	653.2	621.6	610.2	592.5	576.0	576.0
55°	6660.0	4757.3	1738.1	886.1	710.2	626.6	592.5	582.3	564.6	548.1	548.1
57.5°	6715.7	4671.3	1615.3	871.0	700.1	603.8	563.3	554.5	540.5	524.1	521.6
60°	6586.6	4380.1	1400.1	825.4	679.8	579.8	531.7	527.9	522.8	508.9	507.6
62.5°	6089.1	3762.3	1165.9	765.9	645.6	554.5	502.6	508.9	512.7	505.1	503.8
65°	5261.2	3054.7	996.3	683.6	600.0	519.0	470.9	487.4	497.5	497.5	495.0
67.5°	4267.4	2345.8	839.3	612.7	543.1	470.9	435.5	448.1	455.7	453.2	459.5
70°	3033.2	1588.7	683.6	531.7	470.9	416.5	389.9	389.9	384.8	382.3	382.3
72.5°	1471.0	907.7	554.5	444.3	401.3	355.7	334.2	325.3	315.2	313.9	307.6
73°	1229.2	814.0	529.2	427.9	384.8	346.9	322.8	308.9	302.6	297.5	296.2
75°	748.2	617.8	441.8	360.8	327.9	298.8	277.2	264.6	258.2	254.5	253.2
77.5°	492.4	460.8	343.1	276.0	250.7	232.9	224.1	211.4	207.6	202.5	202.5
80°	367.1	351.9	245.6	195.0	179.8	164.6	162.0	159.5	149.4	143.0	140.5
82.5°	236.7	250.7	167.1	130.4	113.9	101.3	102.5	106.3	96.2	87.3	84.8
85°	168.4	181.0	101.3	59.5	48.1	41.8	46.8	41.8	43.0	34.2	27.9
87.5°	27.9	48.1	17.7	7.6	3.8	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)