

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: P455218

Luminaire Tested: **GALN-SA6B-827-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455218
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-SA6B-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 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: 24280 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

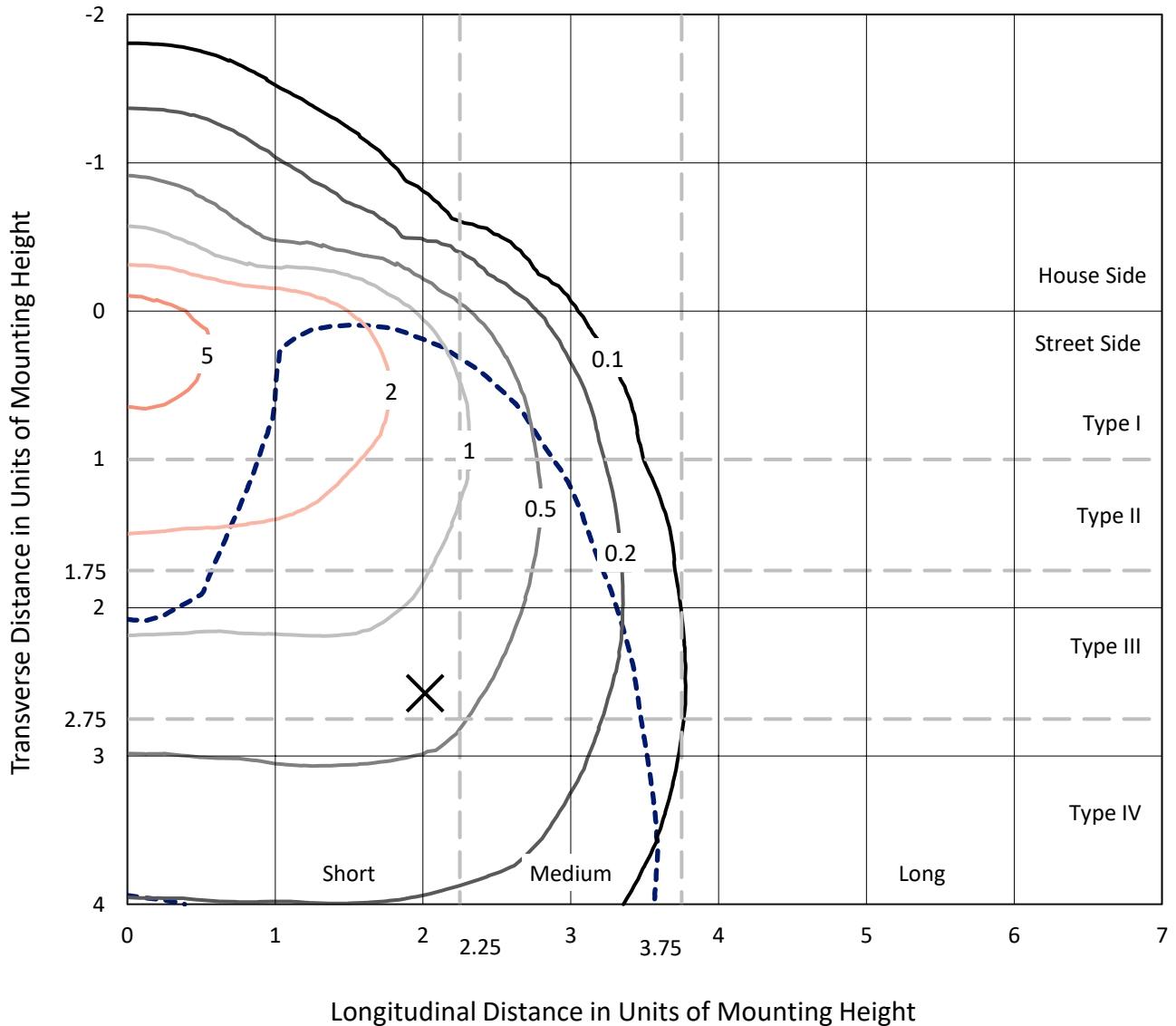
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

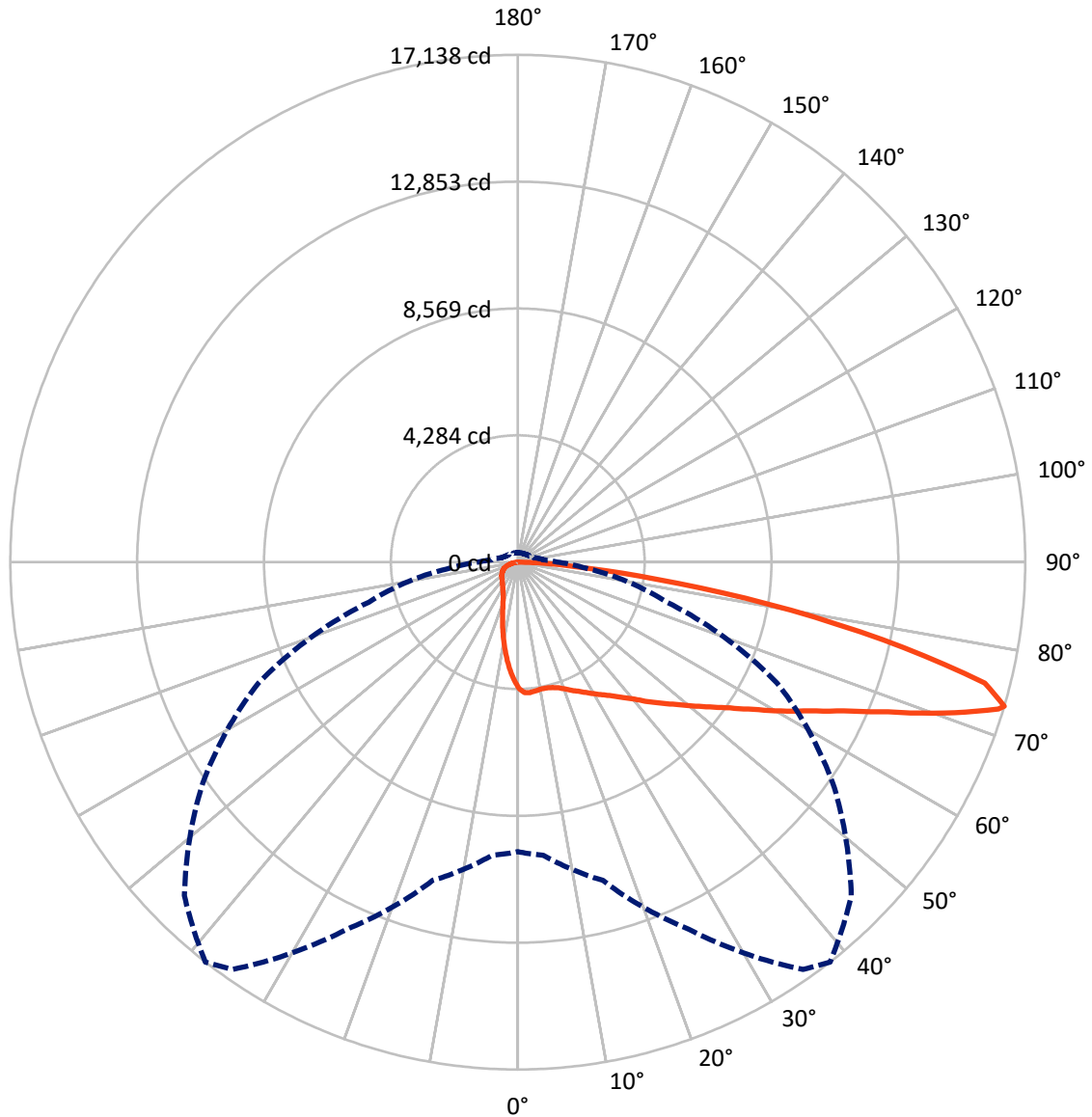
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	3264.0	0.0	3264.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	21016.0	0.0	21016.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	24280.0	0.0	24280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.3	1.5
10°-20°	954.8	3.9
20°-30°	1486.8	6.1
30°-40°	2180.8	9.0
40°-50°	3235.0	13.3
50°-60°	4583.3	18.9
60°-70°	5814.1	23.9
70°-80°	4839.8	19.9
80°-90°	813.2	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°	24280.0	100.0
0°-180°	24280.0	100.0

Coefficient of Utilization



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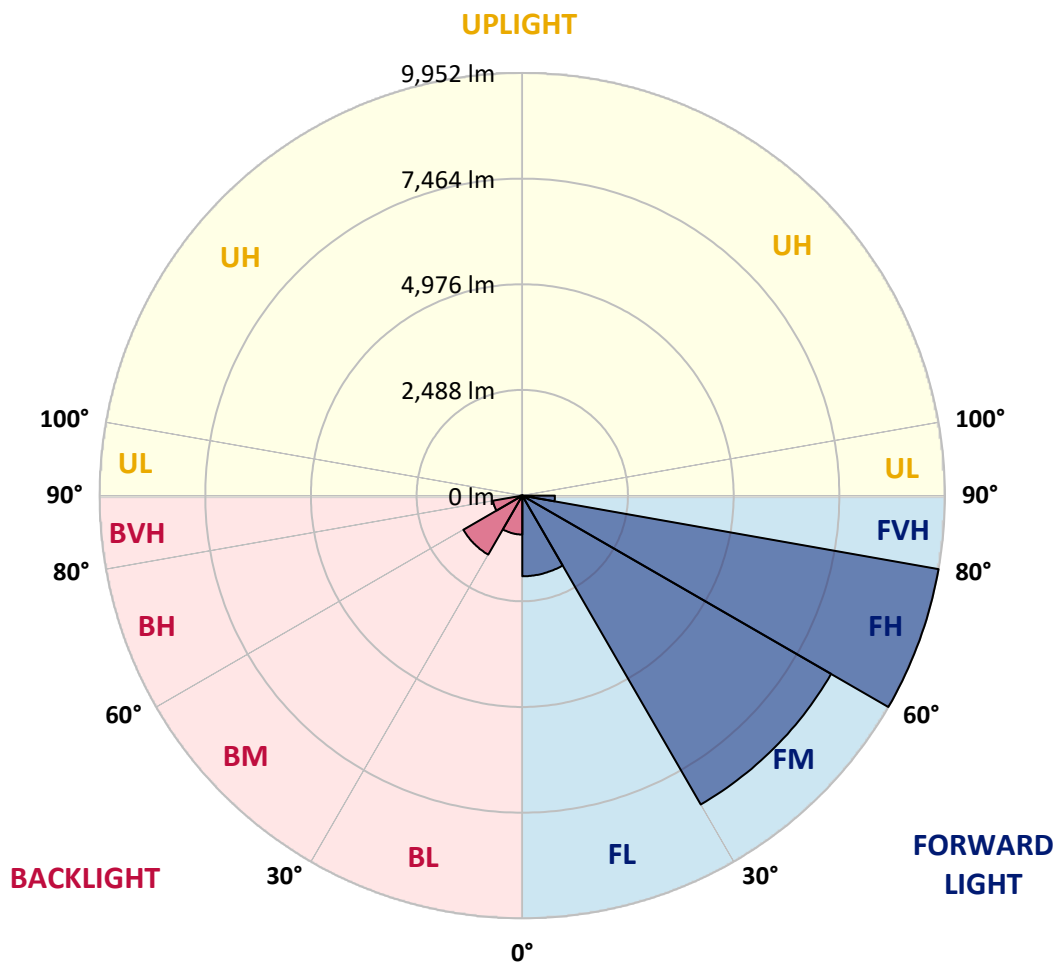
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1898.0	7.8			
FM	(30°-60°)	8396.7	34.6			
FH	(60°-80°)	9952.3	41.0			G4/12000
FVH	(80°-90°)	769.1	3.2			G5
BL	(0°-30°)	915.9	3.8	B2/1000		
BM	(30°-60°)	1602.4	6.6	B2/2500		
BH	(60°-80°)	701.6	2.9	B2/1000		G2/1000
BVH	(80°-90°)	44.1	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6
2.5°	4437.0	4458.9	4447.9	4432.9	4423.3	4413.7	4400.0	4360.2	4328.7	4294.4	4240.9
5°	4469.9	4483.6	4474.0	4454.8	4432.9	4423.3	4397.2	4345.1	4294.4	4236.8	4157.3
7.5°	4450.7	4456.2	4445.2	4421.9	4402.7	4384.9	4354.7	4297.1	4235.4	4165.5	4061.3
10°	4382.1	4402.7	4402.7	4383.5	4364.3	4354.7	4324.5	4269.7	4213.5	4134.0	4010.6
12.5°	4325.9	4347.9	4365.7	4360.2	4358.8	4358.8	4335.5	4294.4	4228.6	4153.2	4006.4
15°	4287.5	4313.6	4352.0	4373.9	4387.6	4391.7	4382.1	4346.5	4279.3	4191.5	4022.9
17.5°	4279.3	4310.8	4380.8	4428.7	4464.4	4463.0	4460.3	4410.9	4336.9	4246.4	4043.5
20°	4316.3	4357.5	4454.8	4530.2	4582.3	4572.7	4557.6	4493.2	4406.8	4305.3	4062.7
22.5°	4427.4	4469.9	4576.8	4659.1	4709.8	4709.8	4664.6	4579.6	4487.7	4373.9	4088.7
25°	4586.4	4633.0	4746.9	4830.5	4853.8	4836.0	4790.7	4687.9	4582.3	4472.6	4143.6
27.5°	4781.1	4837.3	4942.9	5012.9	5006.0	4992.3	4945.7	4814.0	4708.5	4608.4	4236.8
30°	5023.8	5065.0	5174.6	5191.1	5166.4	5163.7	5097.9	4966.2	4867.5	4790.7	4369.8
32.5°	5252.8	5289.8	5377.6	5384.4	5340.6	5346.0	5284.3	5163.7	5107.5	5080.0	4593.3
35°	5495.5	5514.7	5590.1	5581.9	5553.1	5549.0	5524.3	5409.1	5426.9	5476.3	4910.0
37.5°	5698.4	5736.8	5779.3	5786.2	5784.8	5798.5	5815.0	5760.1	5863.0	6017.9	5325.5
40°	5884.9	5917.8	5980.9	6002.8	6056.3	6083.7	6139.9	6141.3	6378.5	6633.5	5836.9
42.5°	6011.0	6067.2	6185.2	6224.9	6355.2	6437.5	6521.1	6610.2	6954.4	7282.1	6440.2
45°	6120.7	6194.8	6390.8	6514.2	6691.1	6791.2	6968.1	7154.6	7649.5	8078.7	7053.1
47.5°	6286.6	6352.4	6577.3	6795.3	7062.7	7177.9	7442.5	7720.8	8368.0	8838.3	7639.9
50°	6517.0	6556.7	6785.7	7140.8	7482.3	7630.3	7980.0	8381.7	9135.8	9588.3	8155.5
52.5°	6811.8	6828.2	7010.6	7483.6	7933.4	8117.1	8580.5	9049.5	9807.7	10239.6	8564.1
55°	7160.0	7132.6	7275.2	7847.0	8448.9	8688.8	9186.6	9725.4	10563.2	10766.1	8861.6
57.5°	7504.2	7461.7	7575.5	8288.5	9085.1	9374.4	9954.4	10422.0	11237.8	11258.3	9070.0
60°	7868.9	7837.4	7973.1	8806.8	9865.3	10208.1	10744.2	11144.5	11890.4	11601.1	9102.9
62.5°	8243.2	8192.5	8385.8	9389.5	10744.2	11055.4	11575.1	11912.4	12530.8	11728.6	8786.2
65°	8606.6	8583.3	8882.2	10081.9	11745.1	12098.8	12603.4	12832.4	13043.6	11536.7	8000.5
67.5°	8993.2	9039.9	9517.0	11006.1	13050.4	13494.7	14039.0	13823.7	13190.3	10627.6	6737.7
70°	9582.8	9613.0	10350.7	12216.8	14732.8	15268.9	15532.2	14176.1	12482.8	8901.4	5065.0
72.5°	9836.5	9969.5	11095.2	13487.8	16644.1	16971.8	16034.0	13390.5	10398.6	6046.7	2661.4
73°	9780.3	9939.3	11129.5	13681.1	16793.6	17137.8	15927.0	12986.0	9666.5	5207.6	2281.6
75°	9079.6	9275.7	10683.8	13519.3	16502.9	16297.2	14207.6	11067.8	6532.1	2367.9	1039.3
77.5°	7164.2	7220.4	8465.4	10916.9	12995.6	12614.4	10633.1	6917.3	2668.2	880.3	589.6
80°	3593.7	3800.8	4771.5	6253.7	8690.2	8565.4	6711.7	3271.5	1112.0	516.9	390.8
82.5°	1729.0	1875.7	2324.1	3049.4	4801.7	4687.9	3323.6	1788.0	706.1	301.6	230.3
85°	1113.4	1223.0	1479.4	1454.8	1974.4	1885.3	1493.2	1353.3	418.2	157.7	160.4
87.5°	734.9	804.9	965.3	771.9	718.5	649.9	659.5	762.3	82.3	60.3	21.9
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°	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6
2.5°	4219.0	4201.1	4142.2	4084.6	4029.8	3977.6	3943.4	3898.1	3868.0	3876.2	3888.5
5°	4113.4	4073.6	3969.4	3868.0	3772.0	3658.2	3566.3	3492.3	3436.1	3415.5	3411.4
7.5°	4002.3	3935.1	3785.7	3611.6	3448.4	3307.2	3144.0	3063.1	2968.5	2935.6	2924.6
10°	3935.1	3844.6	3634.9	3392.2	3146.7	2912.3	2735.4	2591.4	2461.2	2436.5	2424.2
12.5°	3915.9	3796.7	3514.2	3201.6	2875.3	2587.3	2325.4	2136.2	2010.1	1981.3	1938.8
15°	3905.0	3756.9	3401.8	3009.6	2595.5	2244.5	1968.9	1748.2	1633.0	1556.2	1557.6
17.5°	3895.4	3711.6	3275.6	2799.8	2354.2	1949.7	1645.4	1446.5	1341.0	1299.8	1295.7
20°	3881.7	3658.2	3130.3	2579.1	2078.6	1681.0	1405.4	1257.3	1186.0	1151.7	1150.4
22.5°	3876.2	3606.1	2987.7	2354.2	1834.6	1474.0	1246.4	1142.2	1096.9	1073.6	1073.6
25°	3889.9	3569.1	2838.2	2140.3	1617.9	1297.1	1136.7	1065.4	1039.3	1027.0	1022.9
27.5°	3932.4	3552.6	2690.2	1926.4	1419.1	1176.4	1062.6	1013.3	994.1	984.5	985.8
30°	4013.3	3551.2	2544.8	1715.3	1271.0	1084.6	1003.7	969.4	954.3	948.8	947.5
32.5°	4143.6	3581.4	2402.2	1541.1	1146.3	1007.8	948.8	924.1	917.3	913.2	911.8
35°	4364.3	3666.4	2261.0	1382.1	1050.3	939.2	896.7	884.4	874.8	878.9	880.3
37.5°	4661.8	3813.1	2126.6	1257.3	977.6	888.5	852.8	841.9	836.4	840.5	844.6
40°	5060.8	4024.3	2014.2	1157.2	925.5	846.0	814.5	804.9	799.4	806.2	807.6
42.5°	5501.0	4268.3	1921.0	1079.1	883.0	810.3	780.2	769.2	765.1	769.2	770.6
45°	5953.4	4552.2	1873.0	1022.9	847.4	784.3	752.8	740.4	730.8	728.1	732.2
47.5°	6399.1	4799.0	1871.6	988.6	818.6	761.0	726.7	713.0	700.6	693.8	692.4
50°	6762.4	4995.0	1904.5	973.5	793.9	734.9	700.6	686.9	670.5	656.8	659.5
52.5°	7036.6	5122.5	1919.6	966.6	780.2	707.5	673.2	660.9	641.7	623.9	623.9
55°	7213.5	5152.7	1882.6	959.8	769.2	678.7	641.7	630.7	611.5	593.7	593.7
57.5°	7273.8	5059.5	1749.6	943.3	758.2	654.0	610.2	600.6	585.5	567.6	564.9
60°	7134.0	4744.1	1516.5	894.0	736.3	628.0	575.9	571.8	566.3	551.2	549.8
62.5°	6595.1	4075.0	1262.8	829.5	699.3	600.6	544.3	551.2	555.3	547.1	545.7
65°	5698.4	3308.5	1079.1	740.4	649.9	562.2	510.1	527.9	538.9	538.9	536.1
67.5°	4622.1	2540.7	909.1	663.6	588.2	510.1	471.7	485.4	493.6	490.9	497.7
70°	3285.2	1720.8	740.4	575.9	510.1	451.1	422.3	422.3	416.8	414.1	414.1
72.5°	1593.3	983.1	600.6	481.3	434.6	385.3	362.0	352.4	341.4	340.0	333.2
73°	1331.4	881.6	573.1	463.4	416.8	375.7	349.6	334.6	327.7	322.2	320.8
75°	810.3	669.1	478.5	390.8	355.1	323.6	300.3	286.6	279.7	275.6	274.2
77.5°	533.4	499.1	371.6	298.9	271.5	252.3	242.7	229.0	224.9	219.4	219.4
80°	397.6	381.2	266.0	211.2	194.7	178.2	175.5	172.8	161.8	154.9	152.2
82.5°	256.4	271.5	181.0	141.2	123.4	109.7	111.1	115.2	104.2	94.6	91.9
85°	182.4	196.1	109.7	64.4	52.1	45.2	50.7	45.2	46.6	37.0	30.2
87.5°	30.2	52.1	19.2	8.2	4.1	2.7	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)