

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: P454870

Luminaire Tested: **GALN-SA6A-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454870
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-SA6A-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 24174 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

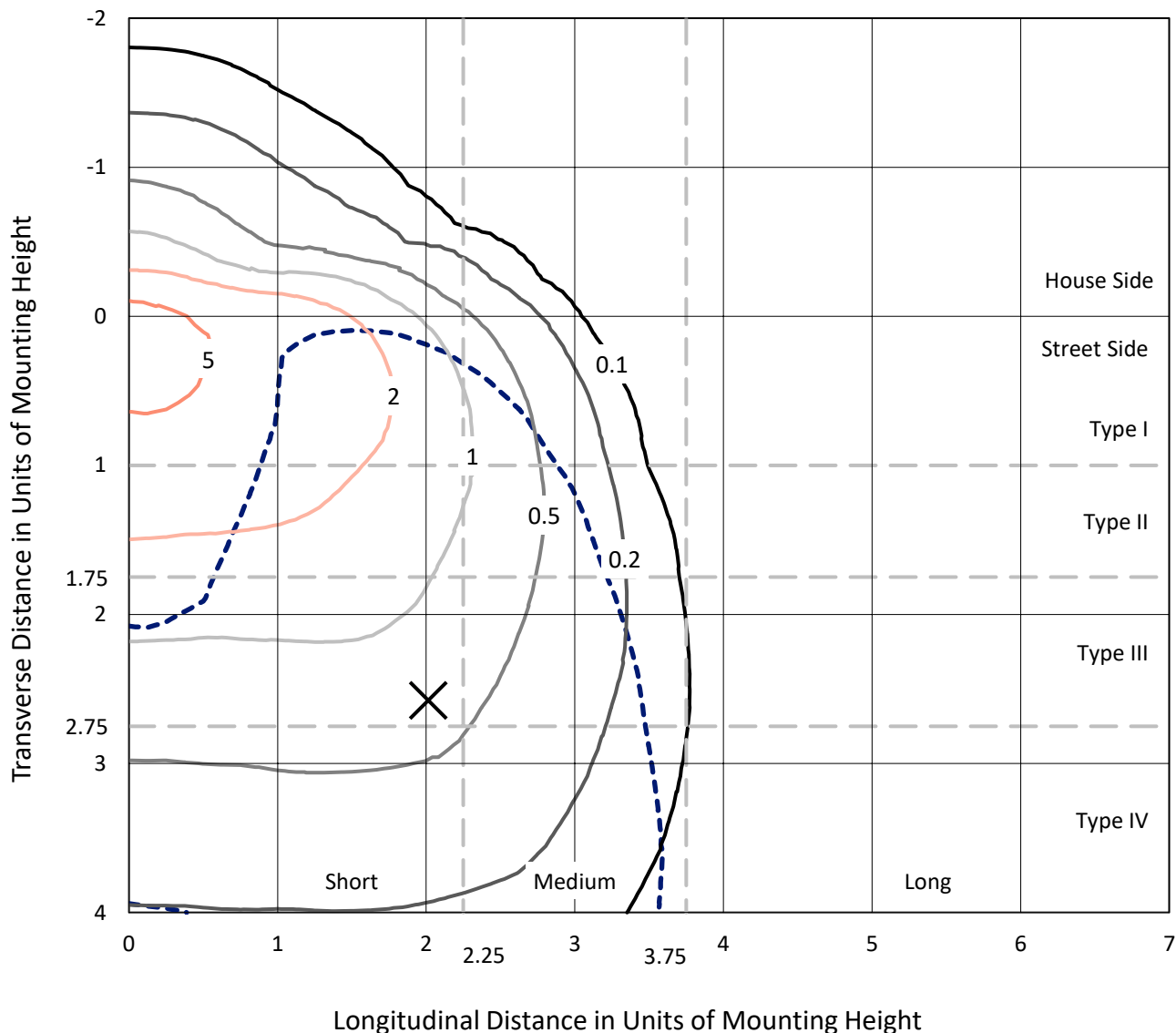
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

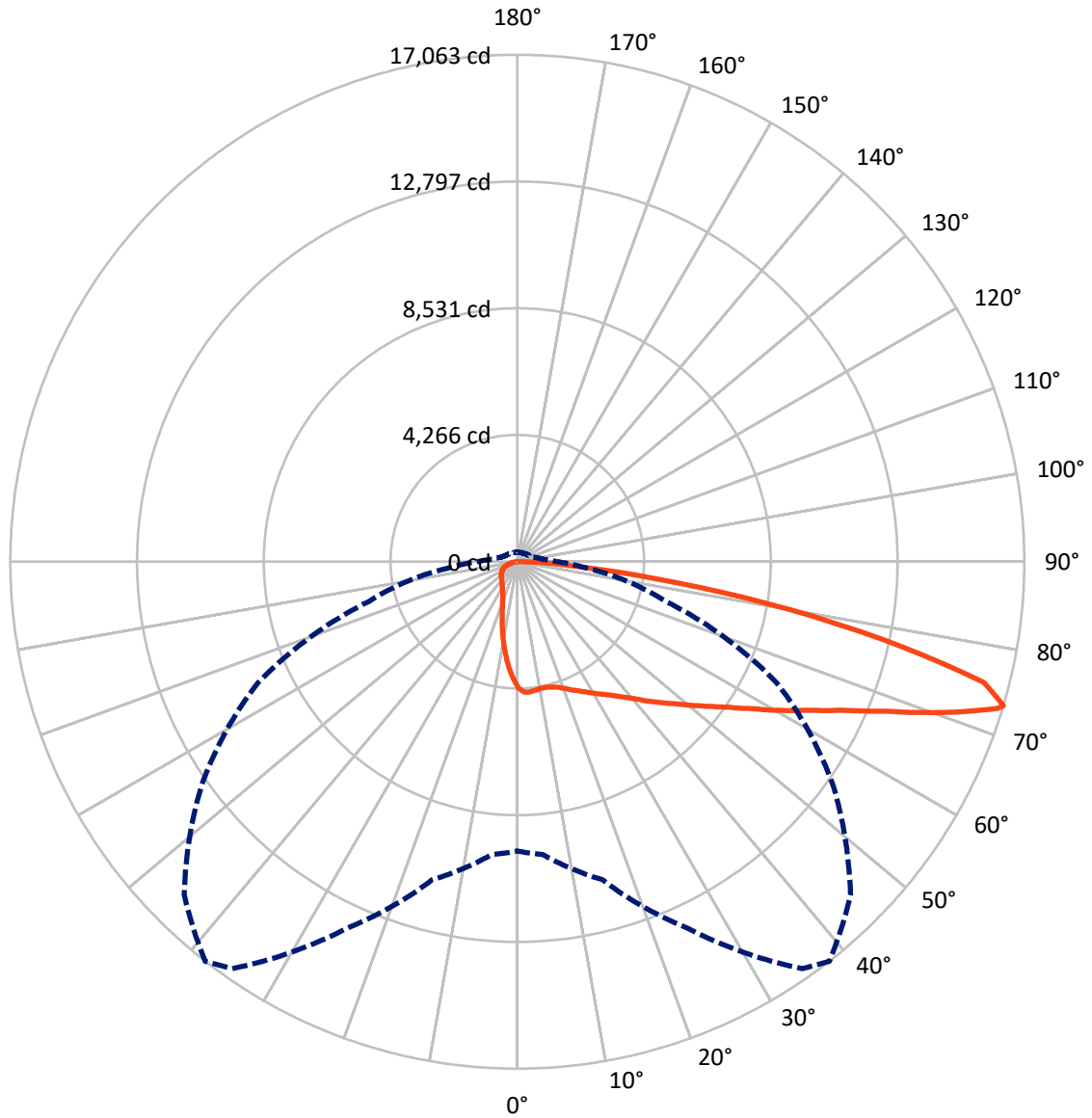
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	3249.7	0.0	3249.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	20924.3	0.0	20924.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	24174.0	0.0	24174.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.7	1.5
10°-20°	950.6	3.9
20°-30°	1480.3	6.1
30°-40°	2171.3	9.0
40°-50°	3220.9	13.3
50°-60°	4563.3	18.9
60°-70°	5788.7	23.9
70°-80°	4818.6	19.9
80°-90°	809.6	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°	24174.0	100.0
0°-180°	24174.0	100.0

Coefficient of Utilization



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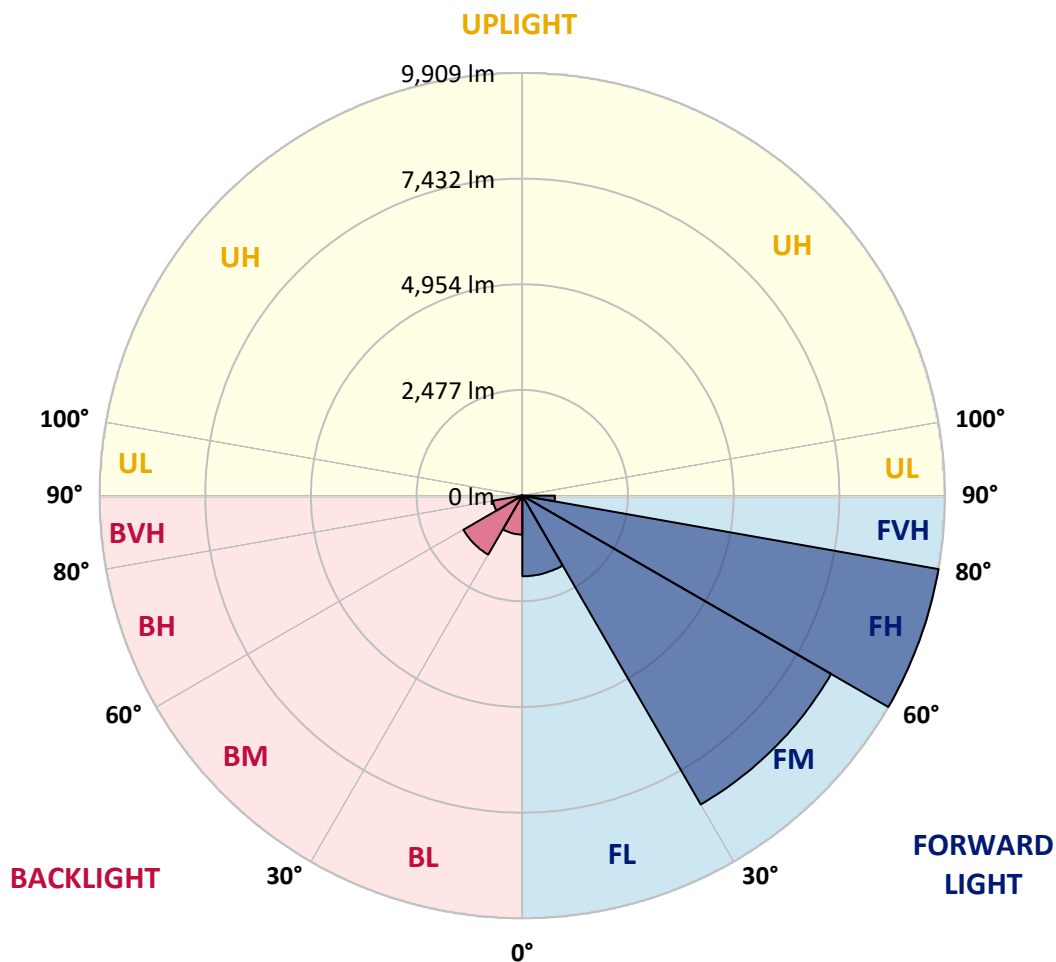
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1889.8	7.8			
FM	(30°-60°)	8360.0	34.6			
FH	(60°-80°)	9908.8	41.0			G4/12000
FVH	(80°-90°)	765.7	3.2			G5
BL	(0°-30°)	911.9	3.8	B2/1000		
BM	(30°-60°)	1595.4	6.6	B2/2500		
BH	(60°-80°)	698.5	2.9	B2/1000		G2/1000
BVH	(80°-90°)	43.9	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°	4247.0	4247.0	4247.0	4247.0	4247.0	4247.0	4247.0	4247.0	4247.0	4247.0	4247.0
2.5°	4417.6	4439.4	4428.5	4413.5	4404.0	4394.4	4380.7	4341.2	4309.8	4275.6	4222.4
5°	4450.4	4464.0	4454.5	4435.4	4413.5	4404.0	4378.0	4326.1	4275.6	4218.3	4139.1
7.5°	4431.3	4436.7	4425.8	4402.6	4383.5	4365.7	4335.7	4278.4	4216.9	4147.3	4043.6
10°	4363.0	4383.5	4383.5	4364.4	4345.3	4335.7	4305.7	4251.1	4195.1	4115.9	3993.0
12.5°	4307.0	4328.9	4346.6	4341.2	4339.8	4339.8	4316.6	4275.6	4210.1	4135.0	3988.9
15°	4268.8	4294.7	4333.0	4354.8	4368.5	4372.6	4363.0	4327.5	4260.6	4173.2	4005.3
17.5°	4260.6	4292.0	4361.6	4409.4	4444.9	4443.5	4440.8	4391.7	4317.9	4227.9	4025.8
20°	4297.5	4338.4	4435.4	4510.4	4562.3	4552.8	4537.7	4473.6	4387.6	4286.6	4044.9
22.5°	4408.0	4450.4	4556.8	4638.8	4689.3	4689.3	4644.2	4559.6	4468.1	4354.8	4070.9
25°	4566.4	4612.8	4726.1	4809.4	4832.6	4814.9	4769.8	4667.4	4562.3	4453.1	4125.5
27.5°	4760.3	4816.2	4921.3	4991.0	4984.1	4970.5	4924.1	4793.0	4687.9	4588.2	4218.3
30°	5001.9	5042.8	5152.1	5168.4	5143.9	5141.1	5075.6	4944.6	4846.3	4769.8	4350.7
32.5°	5229.9	5266.7	5354.1	5360.9	5317.2	5322.7	5261.3	5141.1	5085.2	5057.9	4573.2
35°	5471.5	5490.6	5565.7	5557.5	5528.8	5524.7	5500.2	5385.5	5403.2	5452.4	4888.6
37.5°	5673.5	5711.8	5754.1	5760.9	5759.5	5773.2	5789.6	5735.0	5837.4	5991.6	5302.2
40°	5859.2	5892.0	5954.8	5976.6	6029.8	6057.1	6113.1	6114.5	6350.6	6604.6	5811.4
42.5°	5984.8	6040.8	6158.2	6197.8	6327.4	6409.3	6492.6	6581.4	6924.0	7250.3	6412.1
45°	6094.0	6167.7	6362.9	6485.8	6661.9	6761.6	6937.7	7123.3	7616.1	8043.4	7022.3
47.5°	6259.2	6324.7	6548.6	6765.7	7031.9	7146.5	7410.0	7687.1	8331.5	8799.7	7606.6
50°	6488.5	6528.1	6756.1	7109.7	7449.6	7597.0	7945.1	8345.1	9096.0	9546.4	8119.9
52.5°	6782.0	6798.4	6980.0	7451.0	7898.7	8081.7	8543.1	9009.9	9764.9	10194.9	8526.7
55°	7128.8	7101.5	7243.5	7812.7	8412.0	8650.9	9146.5	9683.0	10517.1	10719.1	8822.9
57.5°	7471.4	7429.1	7542.4	8252.3	9045.4	9333.5	9910.9	10376.5	11188.7	11209.2	9030.4
60°	7834.6	7803.2	7938.3	8768.3	9822.2	10163.5	10697.3	11095.9	11838.5	11550.5	9063.2
62.5°	8207.2	8156.7	8349.2	9348.5	10697.3	11007.2	11524.5	11860.4	12476.0	11677.4	8747.8
65°	8569.0	8545.8	8843.4	10037.9	11693.8	12046.0	12548.4	12776.4	12986.6	11486.3	7965.6
67.5°	8954.0	9000.4	9475.5	10958.0	12993.4	13435.7	13977.7	13763.4	13132.7	10581.2	6708.3
70°	9541.0	9571.0	10305.5	12163.4	14668.5	15202.2	15464.3	14114.2	12428.3	8862.5	5042.8
72.5°	9793.5	9926.0	11046.7	13428.9	16571.5	16897.7	15964.0	13332.0	10353.2	6020.3	2649.7
73°	9737.6	9895.9	11080.9	13621.4	16720.3	17062.9	15857.5	12929.3	9624.3	5184.8	2271.6
75°	9040.0	9235.2	10637.2	13460.3	16430.9	16226.1	14145.6	11019.4	6503.5	2357.6	1034.8
77.5°	7132.9	7188.8	8428.4	10869.3	12938.8	12559.3	10586.7	6887.2	2656.6	876.4	587.0
80°	3578.0	3784.2	4750.7	6226.4	8652.3	8528.1	6682.4	3257.2	1107.1	514.7	389.1
82.5°	1721.4	1867.5	2313.9	3036.1	4780.7	4667.4	3309.1	1780.1	703.0	300.3	229.3
85°	1108.5	1217.7	1473.0	1448.4	1965.8	1877.1	1486.6	1347.4	416.4	157.0	159.7
87.5°	731.7	801.3	961.1	768.6	715.3	647.1	656.6	759.0	81.9	60.1	21.8
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°	4247.0	4247.0	4247.0	4247.0	4247.0	4247.0	4247.0	4247.0	4247.0	4247.0	4247.0
2.5°	4200.5	4182.8	4124.1	4066.8	4012.2	3960.3	3926.2	3881.1	3851.1	3859.3	3871.5
5°	4095.4	4055.8	3952.1	3851.1	3755.5	3642.2	3550.7	3477.0	3421.1	3400.6	3396.5
7.5°	3984.9	3918.0	3769.2	3595.8	3433.3	3292.7	3130.3	3049.7	2955.5	2922.8	2911.9
10°	3918.0	3827.9	3619.0	3377.4	3133.0	2899.6	2723.5	2580.1	2450.4	2425.9	2413.6
12.5°	3898.9	3780.1	3498.9	3187.6	2862.7	2576.0	2315.3	2126.9	2001.3	1972.6	1930.3
15°	3887.9	3740.5	3386.9	2996.5	2584.2	2234.7	1960.3	1740.6	1625.9	1549.4	1550.8
17.5°	3878.4	3695.4	3261.3	2787.6	2344.0	1941.2	1638.2	1440.2	1335.1	1294.2	1290.1
20°	3864.7	3642.2	3116.6	2567.8	2069.6	1673.7	1399.3	1251.8	1180.8	1146.7	1145.4
22.5°	3859.3	3590.3	2974.6	2344.0	1826.6	1467.5	1240.9	1137.2	1092.1	1068.9	1068.9
25°	3872.9	3553.5	2825.8	2131.0	1610.9	1291.4	1131.7	1060.7	1034.8	1022.5	1018.4
27.5°	3915.2	3537.1	2678.4	1918.0	1412.9	1171.3	1058.0	1008.8	989.7	980.2	981.5
30°	3995.8	3535.7	2533.7	1707.8	1265.5	1079.8	999.3	965.2	950.1	944.7	943.3
32.5°	4125.5	3565.8	2391.7	1534.4	1141.3	1003.4	944.7	920.1	913.3	909.2	907.8
35°	4345.3	3650.4	2251.1	1376.1	1045.7	935.1	892.8	880.5	871.0	875.1	876.4
37.5°	4641.5	3796.5	2117.3	1251.8	973.3	884.6	849.1	838.2	832.7	836.8	840.9
40°	5038.7	4006.7	2005.4	1152.2	921.5	842.3	810.9	801.3	795.9	802.7	804.1
42.5°	5477.0	4249.7	1912.6	1074.4	879.2	806.8	776.8	765.8	761.8	765.8	767.2
45°	5927.5	4532.3	1864.8	1018.4	843.7	780.9	749.5	737.2	727.6	724.9	729.0
47.5°	6371.1	4778.0	1863.4	984.3	815.0	757.7	723.5	709.9	697.6	690.8	689.4
50°	6732.9	4973.2	1896.2	969.3	790.4	731.7	697.6	683.9	667.6	653.9	656.6
52.5°	7005.9	5100.2	1911.2	962.4	776.8	704.4	670.3	658.0	638.9	621.1	621.1
55°	7182.0	5130.2	1874.3	955.6	765.8	675.7	638.9	628.0	608.9	591.1	591.1
57.5°	7242.1	5037.4	1741.9	939.2	754.9	651.2	607.5	597.9	582.9	565.2	562.4
60°	7102.8	4723.4	1509.8	890.1	733.1	625.2	573.4	569.3	563.8	548.8	547.4
62.5°	6566.3	4057.2	1257.3	825.9	696.2	597.9	542.0	548.8	552.9	544.7	543.3
65°	5673.5	3294.1	1074.4	737.2	647.1	559.7	507.8	525.6	536.5	536.5	533.8
67.5°	4601.9	2529.6	905.1	660.7	585.6	507.8	469.6	483.3	491.5	488.7	495.5
70°	3270.9	1713.3	737.2	573.4	507.8	449.1	420.5	420.5	415.0	412.3	412.3
72.5°	1586.3	978.8	597.9	479.2	432.8	383.6	360.4	350.8	339.9	338.6	331.7
73°	1325.6	877.8	570.6	461.4	415.0	374.0	348.1	333.1	326.3	320.8	319.4
75°	806.8	666.2	476.4	389.1	353.6	322.2	299.0	285.3	278.5	274.4	273.0
77.5°	531.0	496.9	370.0	297.6	270.3	251.2	241.6	228.0	223.9	218.4	218.4
80°	395.9	379.5	264.8	210.2	193.9	177.5	174.7	172.0	161.1	154.3	151.5
82.5°	255.3	270.3	180.2	140.6	122.9	109.2	110.6	114.7	103.8	94.2	91.5
85°	181.6	195.2	109.2	64.2	51.9	45.0	50.5	45.0	46.4	36.9	30.0
87.5°	30.0	51.9	19.1	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)