

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: P453242

Luminaire Tested: **GALN-SA4B-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20463 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

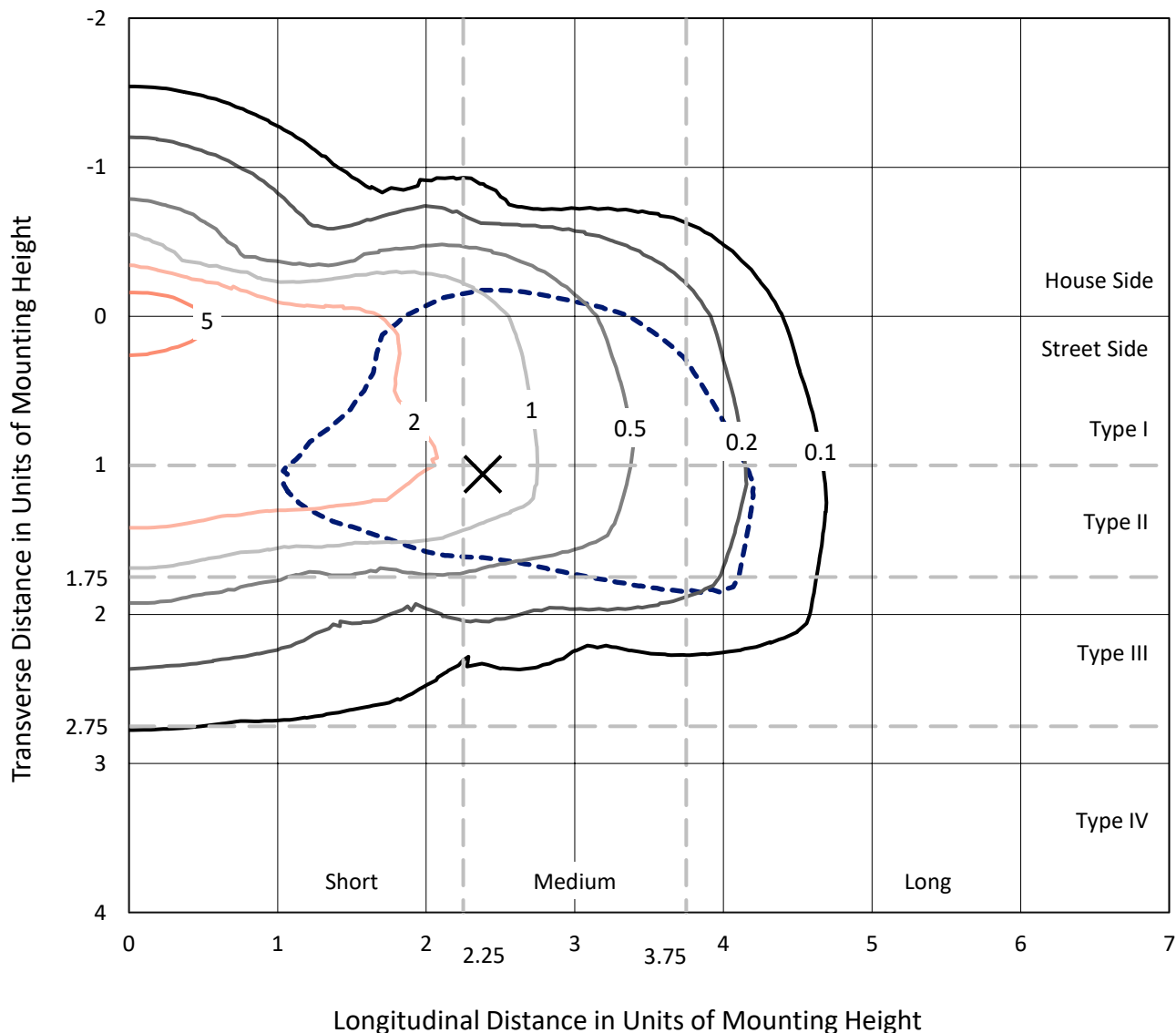
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

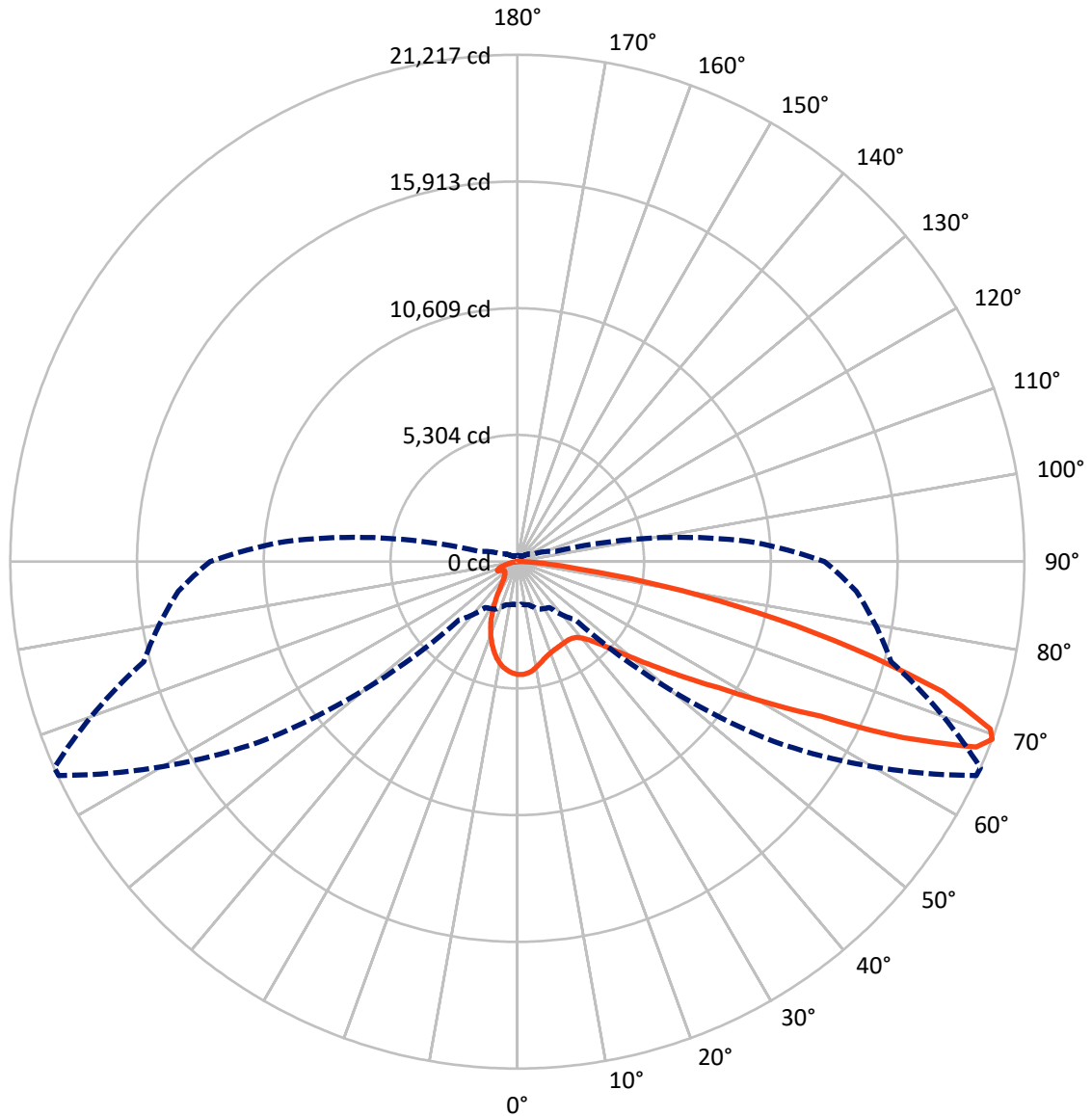
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3848.3	0.0	3848.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	16614.7	0.0	16614.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	20463.0	0.0	20463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.4	2.0
10°-20°	973.3	4.8
20°-30°	1325.1	6.5
30°-40°	1780.6	8.7
40°-50°	2658.7	13.0
50°-60°	4229.1	20.7
60°-70°	5201.6	25.4
70°-80°	3384.4	16.5
80°-90°	499.8	2.4
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°	20463.0	100.0
0°-180°	20463.0	100.0

Coefficient of Utilization



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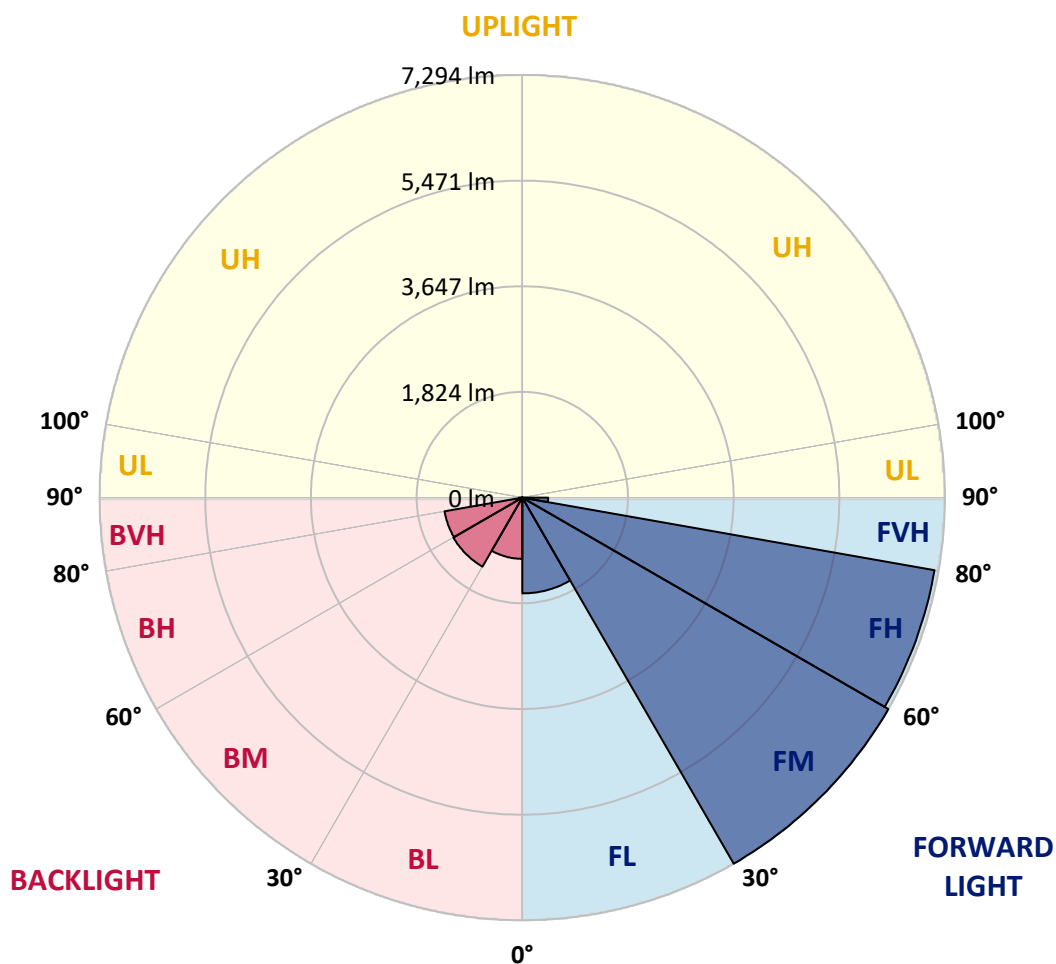
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1652.4	8.1			
FM	(30°-60°)	7294.4	35.6			
FH	(60°-80°)	7223.5	35.3			G3/7500
FVH	(80°-90°)	444.3	2.2			G3/500
BL	(0°-30°)	1056.4	5.2	B3/2500		
BM	(30°-60°)	1374.0	6.7	B2/2500		
BH	(60°-80°)	1362.5	6.7	B3/2500		G3/2500
BVH	(80°-90°)	55.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5
2.5°	4560.0	4578.2	4598.6	4621.2	4664.3	4688.1	4705.1	4724.3	4726.6	4736.8	4728.9
5°	4223.5	4245.0	4275.6	4318.7	4383.2	4484.1	4588.4	4673.3	4683.5	4731.1	4744.7
7.5°	3942.4	3954.9	3979.8	4049.0	4140.7	4252.9	4404.8	4577.0	4602.0	4715.3	4754.9
10°	3713.5	3726.0	3755.4	3826.8	3917.5	4058.0	4224.6	4451.2	4471.6	4666.5	4757.2
12.5°	3542.4	3553.7	3585.5	3655.7	3760.0	3891.4	4075.0	4315.3	4344.7	4602.0	4735.7
15°	3412.1	3433.6	3459.7	3517.5	3627.4	3754.3	3932.2	4190.6	4214.4	4534.0	4720.9
17.5°	3356.6	3366.8	3384.9	3438.2	3518.6	3643.3	3822.3	4093.1	4121.5	4486.4	4717.5
20°	3358.8	3369.0	3372.4	3401.9	3459.7	3567.3	3744.1	4016.1	4050.1	4444.4	4723.2
22.5°	3435.9	3437.0	3424.6	3414.4	3437.0	3526.5	3688.6	3958.3	3998.0	4426.3	4727.7
25°	3554.9	3575.3	3557.1	3509.5	3467.6	3510.7	3667.1	3926.6	3964.0	4400.2	4722.1
27.5°	3747.5	3750.9	3736.2	3671.6	3562.8	3531.1	3658.0	3902.8	3934.5	4381.0	4693.7
30°	4005.9	3995.7	3982.1	3910.7	3739.6	3609.3	3677.3	3881.2	3914.1	4352.7	4659.7
32.5°	4267.7	4299.4	4286.9	4203.1	3981.0	3761.1	3739.6	3879.0	3906.2	4331.1	4622.4
35°	4545.3	4560.0	4619.0	4575.9	4348.1	4007.0	3856.3	3914.1	3935.6	4332.3	4596.3
37.5°	4762.9	4802.5	4940.8	4978.2	4764.0	4332.3	4045.6	4013.8	4022.9	4387.8	4606.5
40°	5025.8	5093.8	5271.7	5424.7	5284.1	4754.9	4367.4	4198.5	4209.9	4521.5	4673.3
42.5°	5358.9	5406.5	5645.6	5853.0	5830.4	5313.6	4757.2	4501.1	4506.8	4787.8	4860.3
45°	5748.8	5816.8	6085.3	6397.0	6450.2	5945.9	5320.4	4958.9	4955.5	5201.4	5209.4
47.5°	6247.4	6289.3	6555.6	6895.6	7110.9	6740.3	6003.7	5616.2	5579.9	5804.3	5739.7
50°	6706.3	6772.0	6973.8	7345.5	7881.5	7670.7	6902.4	6468.3	6383.4	6593.0	6484.2
52.5°	6899.0	6968.1	7138.1	7599.3	8542.1	8874.1	8043.5	7484.8	7343.2	7504.1	7464.4
55°	6564.7	6654.2	6812.8	7373.8	8832.2	10262.3	9582.4	8660.0	8556.8	8487.7	8499.1
57.5°	5666.0	5751.0	5965.2	6583.9	8485.5	11269.7	11779.7	10170.5	9949.6	9631.1	9685.5
60°	4313.0	4366.2	4477.3	5162.9	7457.6	11531.5	14275.0	12080.0	11939.5	10770.0	10808.5
62.5°	3063.1	3123.1	3200.2	3542.4	5459.8	10793.8	16228.7	14746.4	14244.4	11949.7	11912.3
65°	2487.4	2446.6	2539.5	2699.3	3203.6	8365.3	16668.3	18447.5	17756.2	13503.3	12984.3
67.5°	2045.4	2002.4	2094.2	2378.6	2436.4	4855.8	15084.1	20849.9	20711.6	15192.9	14073.3
69°	1810.9	1788.2	1868.7	2192.8	2338.9	3448.4	13140.7	21184.2	21217.0	16189.0	14241.0
70°	1631.8	1640.9	1719.1	2098.7	2294.7	2843.2	11231.2	20723.0	21001.7	16686.5	14059.7
72.5°	1201.2	1220.5	1329.3	1738.3	2252.8	2412.6	6683.7	18100.7	18593.7	16715.9	12861.9
75°	839.7	830.6	927.0	1308.9	2128.2	2391.1	3925.4	13998.5	14557.2	14448.4	10807.4
77.5°	549.6	564.3	641.4	924.7	1790.5	2372.9	2558.8	9931.4	10294.1	9662.9	6392.4
80°	387.6	386.4	429.5	631.2	1328.1	2280.0	2095.3	6259.8	6168.0	3797.4	1895.9
82.5°	222.1	238.0	287.8	444.2	888.4	2006.9	1927.6	2993.9	2733.3	1082.2	640.3
85°	123.5	129.2	171.1	268.6	519.0	1511.7	1682.8	1362.1	1285.1	452.1	275.4
87.5°	39.7	43.1	71.4	136.0	235.7	713.9	953.0	628.9	580.2	163.2	111.1
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°	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5
2.5°	4732.3	4745.9	4709.6	4674.5	4642.8	4598.6	4558.9	4526.0	4503.4	4500.0	4488.6
5°	4748.1	4749.3	4680.1	4587.2	4496.6	4396.8	4293.7	4220.1	4150.9	4112.4	4093.1
7.5°	4759.5	4749.3	4624.6	4473.9	4299.4	4118.1	3936.8	3791.7	3679.5	3635.3	3652.3
10°	4754.9	4723.2	4540.8	4299.4	4045.6	3774.7	3514.1	3310.1	3123.1	3026.8	3029.1
12.5°	4730.0	4677.9	4416.1	4103.3	3730.5	3367.9	2969.0	2693.6	2477.2	2349.1	2309.5
15°	4708.5	4617.8	4269.9	3837.0	3373.6	2855.7	2369.5	2029.6	1848.3	1747.4	1746.3
17.5°	4685.8	4560.0	4110.1	3554.9	2963.3	2297.0	1787.1	1527.6	1442.6	1452.8	1435.8
20°	4662.0	4492.0	3943.6	3241.0	2463.6	1713.4	1338.3	1232.9	1256.7	1303.2	1310.0
22.5°	4634.8	4419.5	3764.5	2895.3	1937.8	1289.6	1085.6	1069.7	1130.9	1203.5	1213.7
25°	4592.9	4328.9	3539.0	2533.9	1494.7	1039.2	950.8	962.1	1022.2	1083.3	1090.1
27.5°	4534.0	4216.7	3311.2	2082.8	1123.0	891.8	869.2	883.9	913.4	950.8	959.8
30°	4454.6	4089.7	3049.5	1693.0	899.8	818.2	809.1	817.0	834.0	849.9	854.4
32.5°	4375.3	3967.4	2785.4	1296.4	802.3	769.4	760.4	760.4	760.4	762.6	763.8
35°	4301.7	3851.8	2502.1	1009.7	751.3	730.9	718.5	704.9	702.6	694.7	694.7
37.5°	4260.9	3746.4	2200.7	845.4	713.9	699.2	682.2	659.5	647.1	648.2	645.9
40°	4268.8	3677.3	1926.5	752.4	683.3	667.5	641.4	615.3	607.4	607.4	605.1
42.5°	4358.3	3654.6	1663.5	703.7	653.9	635.7	602.9	579.1	574.5	573.4	575.7
45°	4564.6	3710.1	1427.8	672.0	628.9	601.7	568.9	547.3	542.8	542.8	541.7
47.5°	4966.8	3890.3	1259.0	651.6	610.8	575.7	541.7	520.1	512.2	509.9	509.9
50°	5592.4	4281.3	1133.2	633.5	588.1	551.9	516.7	491.8	479.3	478.2	477.1
52.5°	6461.5	4890.9	1084.5	619.9	563.2	526.9	488.4	464.6	448.8	445.4	443.1
55°	7478.0	5742.0	1151.3	609.7	537.1	498.6	458.9	434.0	419.3	412.5	411.4
57.5°	8655.4	6764.1	1405.2	596.1	513.3	468.0	429.5	404.6	388.7	380.8	378.5
60°	9712.7	7814.6	1848.3	588.1	492.9	435.2	395.5	372.8	358.1	350.2	349.0
62.5°	10874.3	8816.4	2377.5	609.7	483.9	403.4	363.8	343.4	330.9	323.0	323.0
65°	12115.1	9819.2	2727.6	682.2	497.5	378.5	329.8	312.8	301.4	295.8	294.6
67.5°	12951.4	10166.0	2247.2	757.0	531.5	351.3	296.9	283.3	276.5	270.8	270.8
69°	12860.8	9727.5	1657.9	776.2	541.7	337.7	278.8	268.6	259.5	257.2	255.0
70°	12574.1	9227.7	1389.3	763.8	533.7	325.2	267.4	255.0	247.0	244.8	243.6
72.5°	11199.5	8002.7	1034.6	664.1	454.4	282.2	236.8	225.5	218.7	215.3	215.3
75°	9304.8	6540.9	808.0	528.1	355.8	238.0	202.8	193.8	188.1	185.8	184.7
77.5°	5215.0	3652.3	580.2	413.6	269.7	192.6	170.0	162.0	156.4	154.1	154.1
80°	1452.8	1043.7	341.1	273.1	183.6	146.2	134.9	129.2	121.3	115.6	119.0
82.5°	547.3	452.1	194.9	164.3	116.7	97.5	94.1	89.5	86.1	78.2	78.2
85°	266.3	219.8	124.7	87.3	64.6	51.0	48.7	46.5	44.2	38.5	39.7
87.5°	91.8	97.5	54.4	31.7	19.3	12.5	10.2	5.7	5.7	5.7	5.7
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)