

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: P452575

Luminaire Tested: **GALN-SA3C-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452575
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-SA3C-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA 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: 20949 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

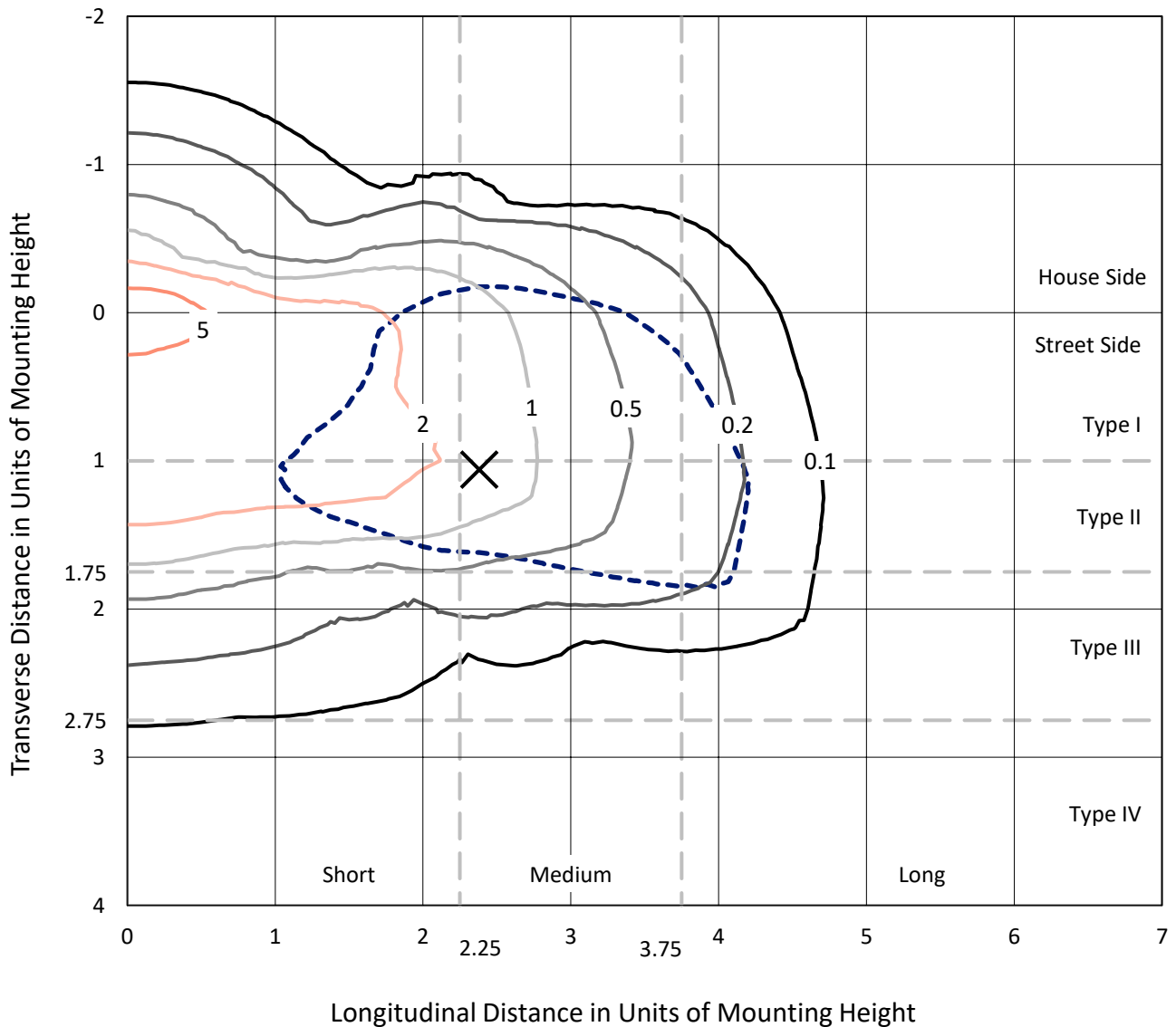
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

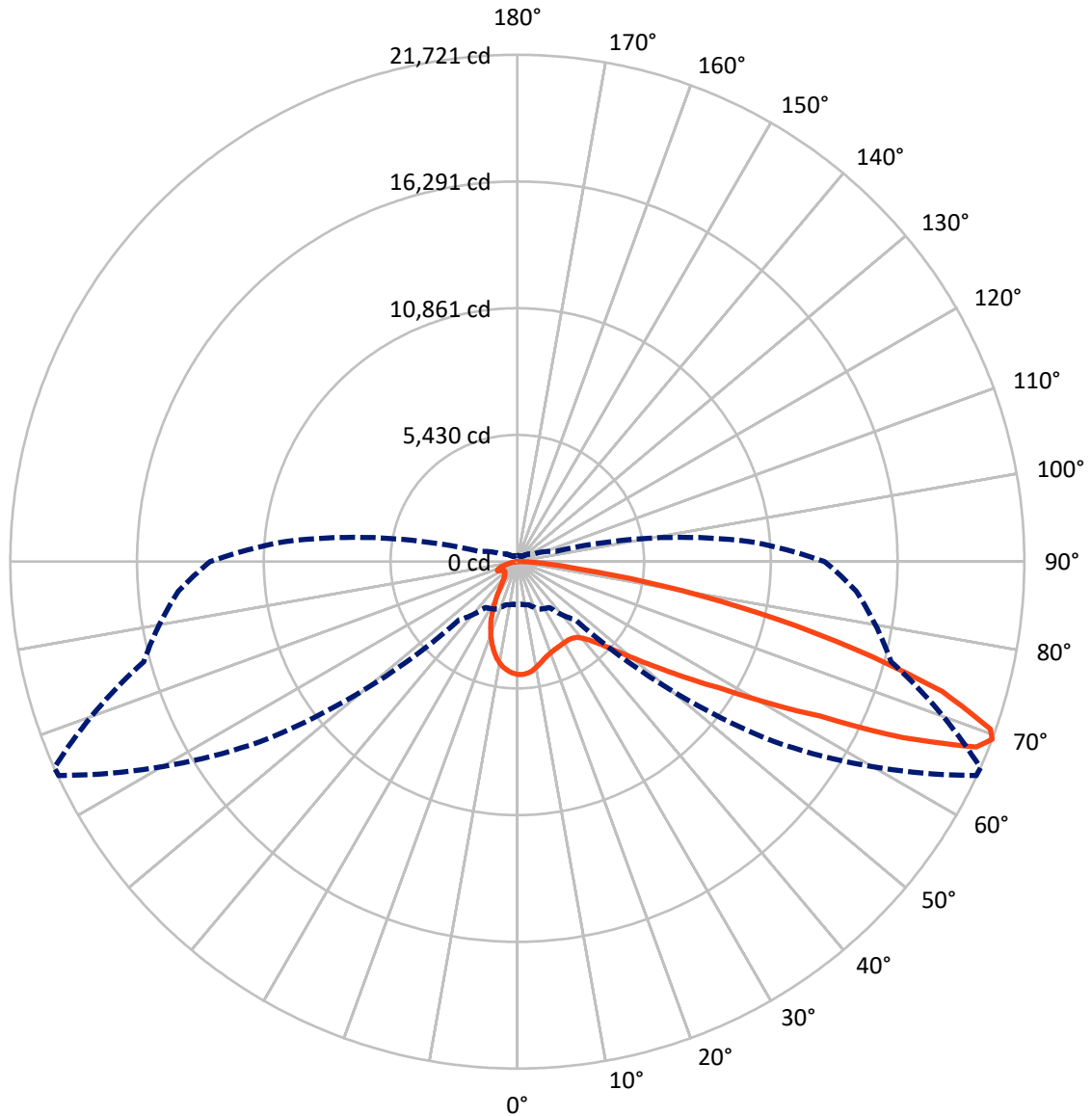
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	3939.7	0.0	3939.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	17009.3	0.0	17009.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	20949.0	0.0	20949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.1	2.0
10°-20°	996.4	4.8
20°-30°	1356.5	6.5
30°-40°	1822.9	8.7
40°-50°	2721.9	13.0
50°-60°	4329.6	20.7
60°-70°	5325.2	25.4
70°-80°	3464.8	16.5
80°-90°	511.6	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°	20949.0	100.0
0°-180°	20949.0	100.0

Coefficient of Utilization



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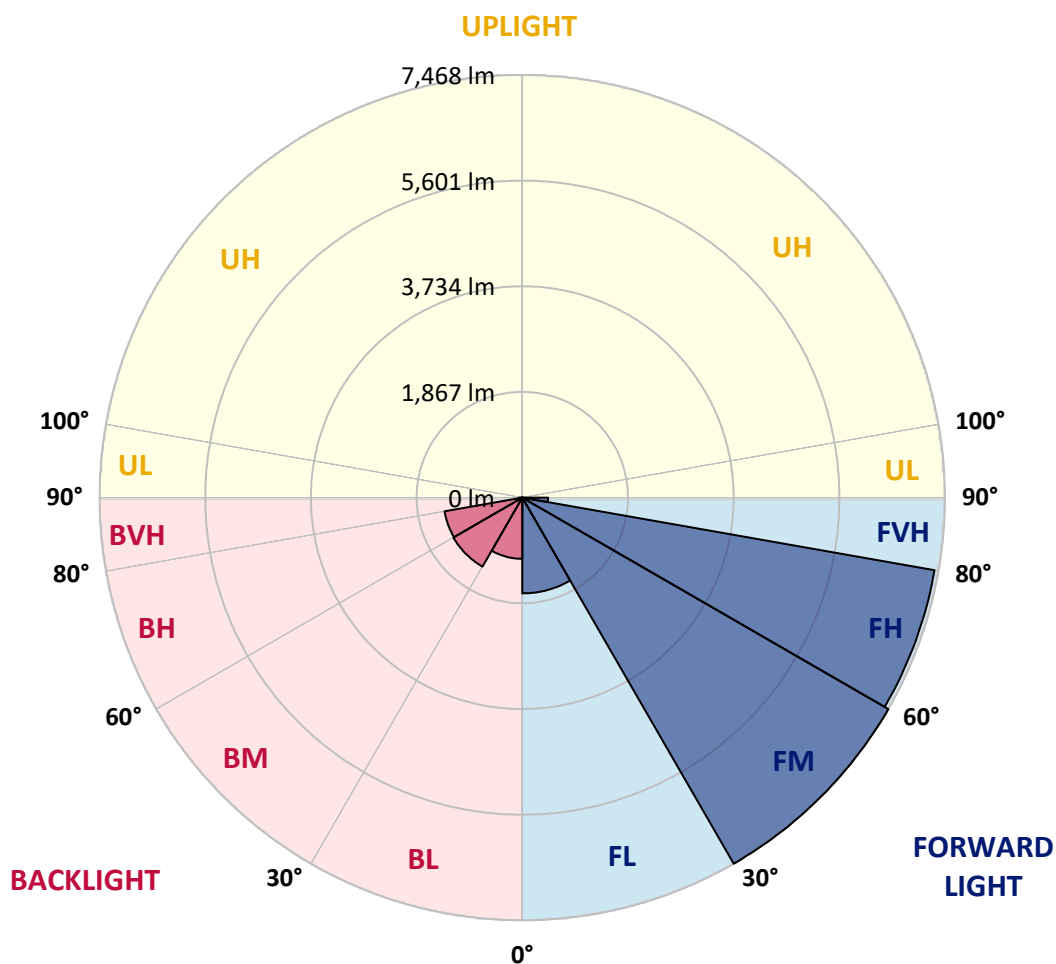
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1691.6	8.1			
FM	(30°-60°)	7467.7	35.6			
FH	(60°-80°)	7395.1	35.3			G3/7500
FVH	(80°-90°)	454.9	2.2			G3/500
BL	(0°-30°)	1081.5	5.2	B3/2500		
BM	(30°-60°)	1406.7	6.7	B2/2500		
BH	(60°-80°)	1394.8	6.7	B3/2500		G3/2500
BVH	(80°-90°)	56.8	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°	4837.7	4837.7	4837.7	4837.7	4837.7	4837.7	4837.7	4837.7	4837.7	4837.7	4837.7
2.5°	4668.3	4686.9	4707.8	4731.0	4775.1	4799.4	4816.8	4836.5	4838.9	4849.3	4841.2
5°	4323.8	4345.8	4377.1	4421.2	4487.3	4590.6	4697.3	4784.3	4794.8	4843.5	4857.4
7.5°	4036.1	4048.8	4074.3	4145.1	4239.1	4353.9	4509.4	4685.7	4711.3	4827.3	4867.9
10°	3801.7	3814.5	3844.6	3917.7	4010.5	4154.4	4324.9	4557.0	4577.8	4777.4	4870.2
12.5°	3626.5	3638.1	3670.6	3742.6	3849.3	3983.9	4171.8	4417.7	4447.9	4711.3	4848.1
15°	3493.1	3515.2	3541.9	3601.0	3713.5	3843.5	4025.6	4290.1	4314.5	4641.6	4833.1
17.5°	3436.3	3446.7	3465.3	3519.8	3602.2	3729.8	3913.1	4190.4	4219.4	4592.9	4829.6
20°	3438.6	3449.0	3452.5	3482.7	3541.9	3652.1	3833.0	4111.5	4146.3	4550.0	4835.4
22.5°	3517.5	3518.6	3505.9	3495.4	3518.6	3610.3	3776.2	4052.3	4092.9	4531.4	4840.0
25°	3639.3	3660.2	3641.6	3592.9	3550.0	3594.1	3754.2	4019.8	4058.1	4504.8	4834.2
27.5°	3836.5	3840.0	3824.9	3758.8	3647.4	3614.9	3744.9	3995.5	4027.9	4485.0	4805.2
30°	4101.0	4090.6	4076.7	4003.6	3828.4	3695.0	3764.6	3973.4	4007.1	4456.0	4770.4
32.5°	4369.0	4401.5	4388.7	4302.9	4075.5	3850.4	3828.4	3971.1	3998.9	4434.0	4732.1
35°	4653.2	4668.3	4728.7	4684.6	4451.4	4102.2	3947.9	4007.1	4029.1	4435.1	4705.5
37.5°	4876.0	4916.6	5058.1	5096.4	4877.2	4435.1	4141.6	4109.1	4118.4	4492.0	4715.9
40°	5145.1	5214.7	5396.9	5553.5	5409.6	4867.9	4471.1	4298.2	4309.9	4628.9	4784.3
42.5°	5486.2	5534.9	5779.7	5992.0	5968.8	5439.8	4870.2	4608.0	4613.8	4901.5	4975.8
45°	5885.3	5954.9	6229.9	6548.9	6603.4	6087.2	5446.8	5076.7	5073.2	5325.0	5333.1
47.5°	6395.7	6438.7	6711.3	7059.3	7279.8	6900.4	6146.3	5749.6	5712.4	5942.1	5876.0
50°	6865.6	6932.9	7139.4	7519.9	8068.6	7852.9	7066.3	6622.0	6535.0	6749.6	6638.2
52.5°	7062.8	7133.6	7307.6	7779.8	8745.0	9084.9	8234.5	7662.6	7517.6	7682.3	7641.7
55°	6720.6	6812.2	6974.6	7548.9	9042.0	10506.1	9810.0	8865.6	8760.1	8689.3	8700.9
57.5°	5800.6	5887.6	6106.9	6740.3	8687.0	11537.4	12059.5	10412.1	10185.9	9859.9	9915.6
60°	4415.4	4469.9	4583.6	5285.5	7634.8	11805.4	14614.0	12366.9	12223.0	11025.8	11065.2
62.5°	3135.8	3197.3	3276.2	3626.5	5589.5	11050.2	16614.1	15096.7	14582.7	12233.5	12195.2
65°	2546.5	2504.7	2599.8	2763.4	3279.7	8564.0	17064.2	18885.6	18177.9	13824.0	13292.7
67.5°	2094.0	2049.9	2143.9	2435.1	2494.3	4971.1	15442.4	21345.1	21203.5	15553.7	14407.5
69°	1853.9	1830.7	1913.0	2244.8	2394.5	3530.2	13452.8	21687.3	21721.0	16573.5	14579.2
70°	1670.6	1679.9	1759.9	2148.5	2349.2	2910.7	11498.0	21215.1	21500.5	17082.8	14393.6
72.5°	1229.7	1249.5	1360.8	1779.6	2306.3	2469.9	6842.4	18530.6	19035.3	17113.0	13167.4
75°	859.6	850.4	949.0	1339.9	2178.7	2447.9	4018.7	14331.0	14902.9	14791.5	11064.1
77.5°	562.7	577.7	656.6	946.7	1833.0	2429.3	2619.6	10167.3	10538.5	9892.4	6544.2
80°	396.8	395.6	439.7	646.2	1359.7	2334.2	2145.1	6408.5	6314.5	3887.6	1940.9
82.5°	227.4	243.6	294.7	454.8	909.5	2054.6	1973.4	3065.0	2798.2	1107.9	655.5
85°	126.5	132.3	175.2	274.9	531.3	1547.6	1722.8	1394.5	1315.6	462.9	281.9
87.5°	40.6	44.1	73.1	139.2	241.3	730.9	975.7	643.9	594.0	167.1	113.7
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°	4837.7	4837.7	4837.7	4837.7	4837.7	4837.7	4837.7	4837.7	4837.7	4837.7	4837.7
2.5°	4844.7	4858.6	4821.5	4785.5	4753.0	4707.8	4667.2	4633.5	4610.3	4606.8	4595.2
5°	4860.9	4862.1	4791.3	4696.2	4603.4	4501.3	4395.7	4320.3	4249.5	4210.1	4190.4
7.5°	4872.5	4862.1	4734.5	4580.2	4401.5	4215.9	4030.3	3881.8	3766.9	3721.7	3739.1
10°	4867.9	4835.4	4648.6	4401.5	4141.6	3864.4	3597.5	3388.7	3197.3	3098.7	3101.0
12.5°	4842.3	4789.0	4521.0	4200.8	3819.1	3447.9	3039.5	2757.6	2536.0	2404.9	2364.3
15°	4820.3	4727.5	4371.3	3928.2	3453.7	2923.5	2425.8	2077.8	1892.2	1788.9	1787.7
17.5°	4797.1	4668.3	4207.8	3639.3	3033.7	2351.6	1829.5	1563.8	1476.8	1487.3	1469.9
20°	4772.7	4598.7	4037.2	3317.9	2522.1	1754.1	1370.1	1262.2	1286.6	1334.1	1341.1
22.5°	4744.9	4524.5	3853.9	2964.1	1983.8	1320.2	1111.4	1095.2	1157.8	1232.0	1242.5
25°	4702.0	4431.7	3623.1	2594.0	1530.2	1063.8	973.3	984.9	1046.4	1109.1	1116.0
27.5°	4641.6	4316.8	3389.9	2132.3	1149.7	913.0	889.8	904.9	935.1	973.3	982.6
30°	4560.4	4186.9	3121.9	1733.2	921.1	837.6	828.3	836.4	853.8	870.1	874.7
32.5°	4479.2	4061.6	2851.6	1327.2	821.4	787.7	778.4	778.4	778.4	780.8	781.9
35°	4403.8	3943.3	2561.5	1033.7	769.2	748.3	735.5	721.6	719.3	711.2	711.2
37.5°	4362.1	3835.4	2253.0	865.5	730.9	715.8	698.4	675.2	662.4	663.6	661.3
40°	4370.2	3764.6	1972.2	770.3	699.6	683.3	656.6	629.9	621.8	621.8	619.5
42.5°	4461.8	3741.4	1703.1	720.4	669.4	650.8	617.2	592.8	588.2	587.0	589.3
45°	4673.0	3798.2	1461.8	688.0	643.9	616.0	582.4	560.3	555.7	555.7	554.5
47.5°	5084.8	3982.7	1288.9	667.1	625.3	589.3	554.5	532.5	524.4	522.1	522.1
50°	5725.2	4382.9	1160.1	648.5	602.1	565.0	529.0	503.5	490.7	489.6	488.4
52.5°	6615.0	5007.1	1110.2	634.6	576.6	539.5	500.0	475.6	459.4	455.9	453.6
55°	7655.6	5878.3	1178.7	624.1	549.9	510.5	469.8	444.3	429.2	422.3	421.1
57.5°	8861.0	6924.8	1438.6	610.2	525.5	479.1	439.7	414.2	397.9	389.8	387.5
60°	9943.4	8000.2	1892.2	602.1	504.7	445.5	404.9	381.7	366.6	358.5	357.3
62.5°	11132.5	9025.7	2433.9	624.1	495.4	413.0	372.4	351.5	338.8	330.6	330.6
65°	12402.9	10052.5	2792.4	698.4	509.3	387.5	337.6	320.2	308.6	302.8	301.6
67.5°	13259.0	10407.4	2300.5	775.0	544.1	359.6	304.0	290.0	283.1	277.3	277.3
69°	13166.2	9958.5	1697.3	794.7	554.5	345.7	285.4	274.9	265.7	263.3	261.0
70°	12872.7	9446.9	1422.3	781.9	546.4	333.0	273.8	261.0	252.9	250.6	249.4
72.5°	11465.5	8192.8	1059.2	679.8	465.2	288.9	242.5	230.9	223.9	220.4	220.4
75°	9525.8	6696.2	827.2	540.6	364.3	243.6	207.7	198.4	192.6	190.3	189.1
77.5°	5338.9	3739.1	594.0	423.4	276.1	197.2	174.0	165.9	160.1	157.8	157.8
80°	1487.3	1068.5	349.2	279.6	187.9	149.7	138.1	132.3	124.1	118.3	121.8
82.5°	560.3	462.9	199.5	168.2	119.5	99.8	96.3	91.6	88.2	80.0	80.0
85°	272.6	225.1	127.6	89.3	66.1	52.2	49.9	47.6	45.2	39.4	40.6
87.5°	94.0	99.8	55.7	32.5	19.7	12.8	10.4	5.8	5.8	5.8	5.8
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)