

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: P453619

Luminaire Tested: **GALN-SA4C-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453619
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-SA4C-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 22060 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 213
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



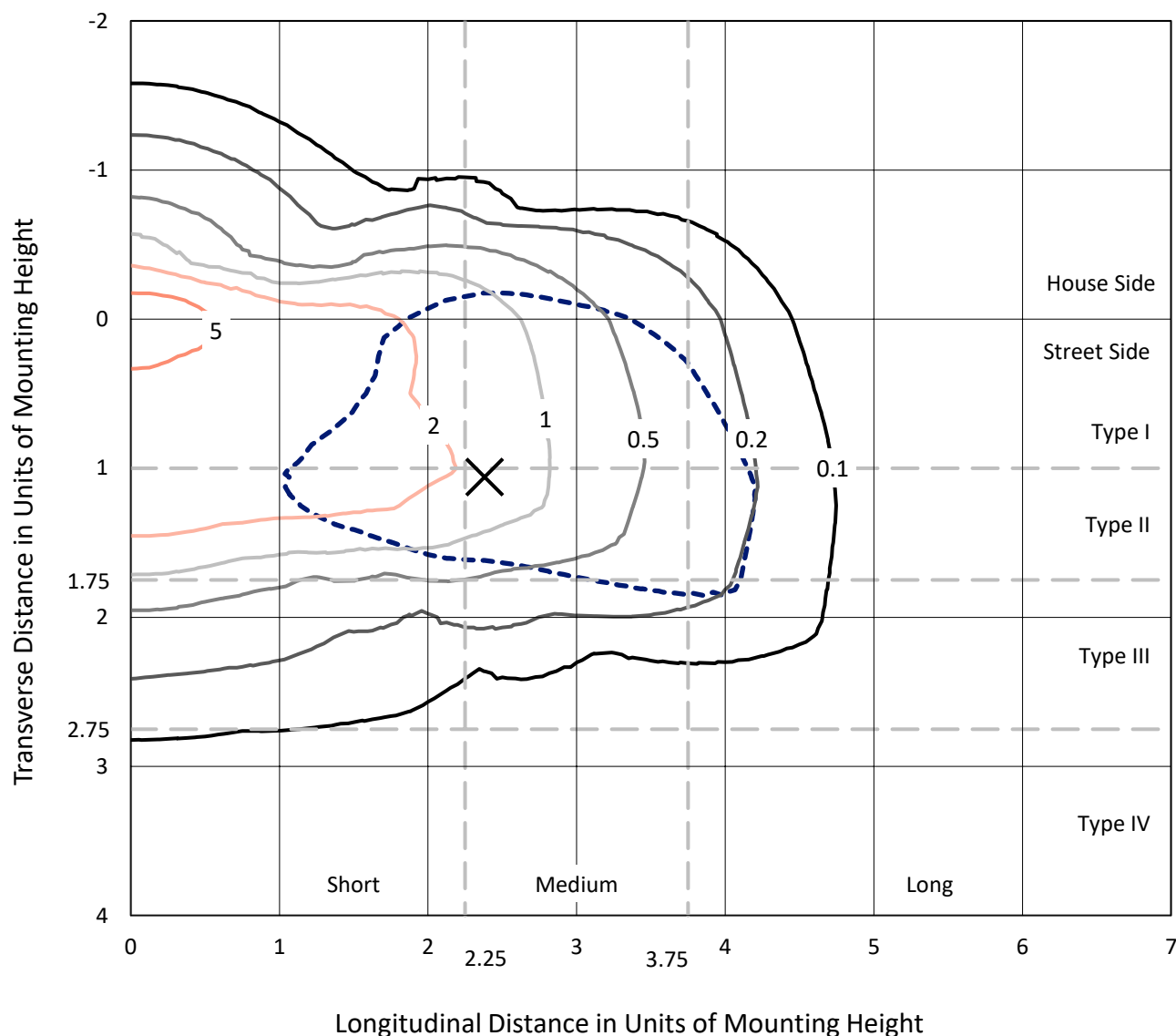
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

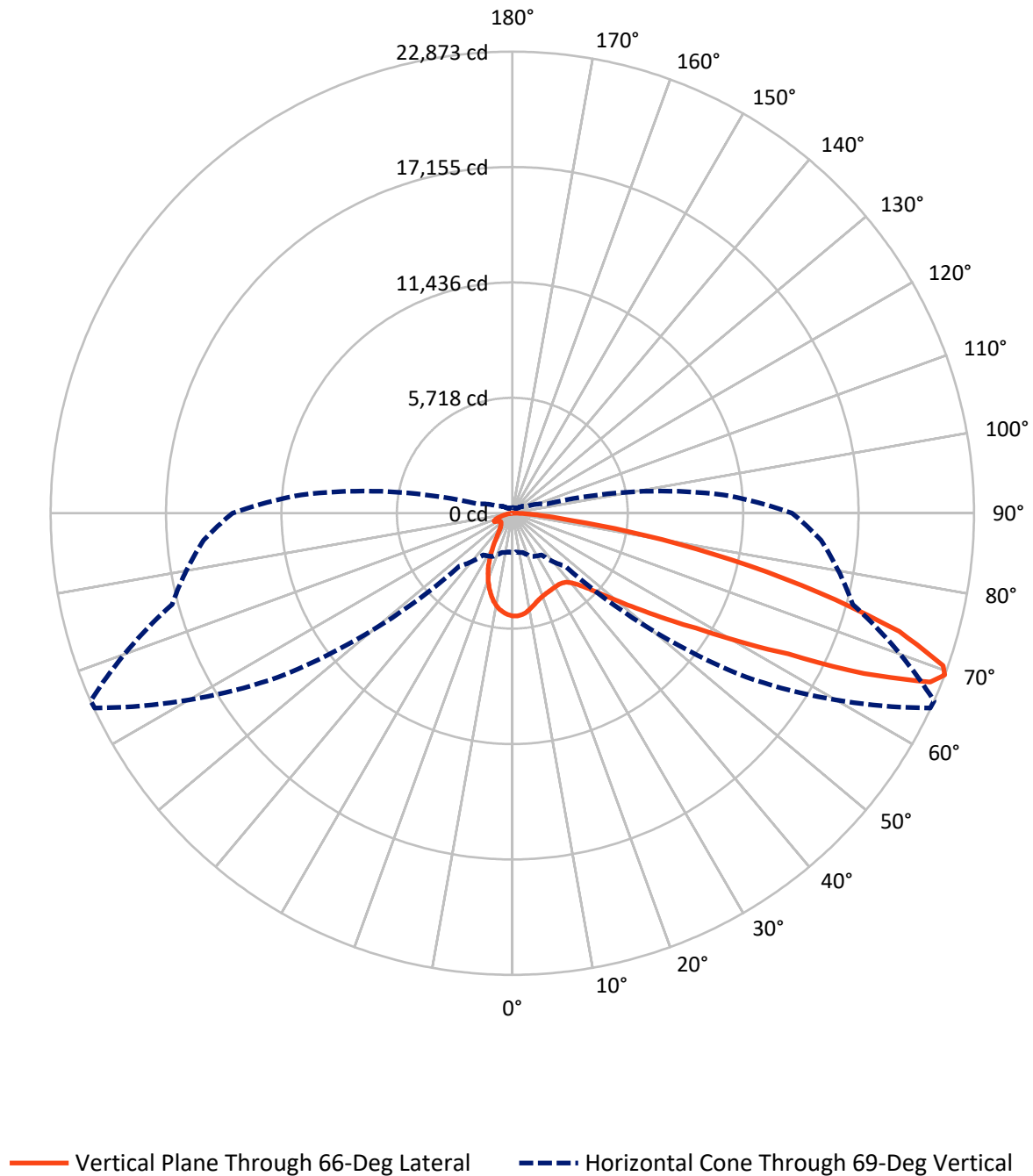


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4148.7	0.0	4148.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	17911.3	0.0	17911.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	22060.0	0.0	22060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.4	2.0
10°-20°	1049.3	4.8
20°-30°	1428.5	6.5
30°-40°	1919.6	8.7
40°-50°	2866.2	13.0
50°-60°	4559.2	20.7
60°-70°	5607.6	25.4
70°-80°	3648.5	16.5
80°-90°	538.8	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°	22060.0	100.0
0°-180°	22060.0	100.0

Coefficient of Utilization



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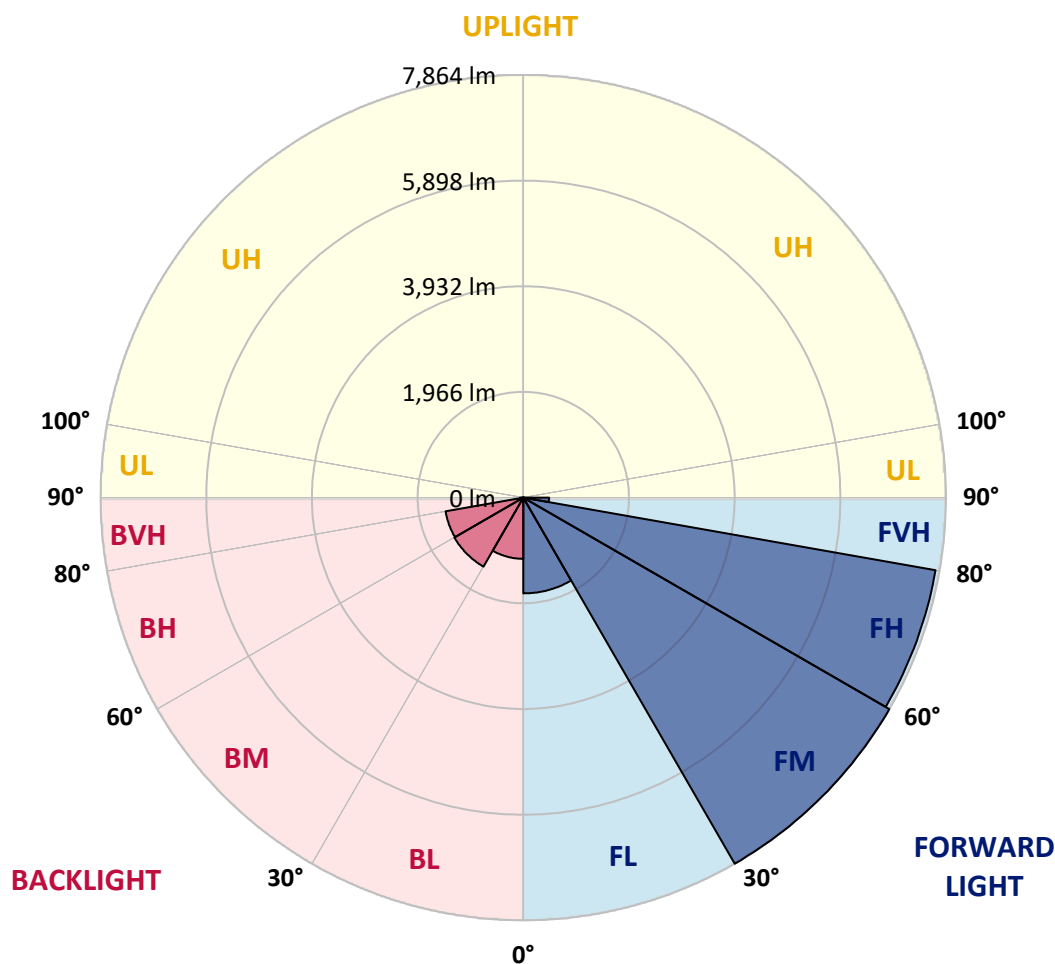
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1781.3	8.1			
FM	(30°-60°)	7863.7	35.6			
FH	(60°-80°)	7787.3	35.3			G4/12000
FVH	(80°-90°)	479.0	2.2			G3/500
BL	(0°-30°)	1138.8	5.2	B3/2500		
BM	(30°-60°)	1481.3	6.7	B2/2500		
BH	(60°-80°)	1468.8	6.7	B3/2500		G3/2500
BVH	(80°-90°)	59.8	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5094.3	5094.3	5094.3	5094.3	5094.3	5094.3	5094.3	5094.3	5094.3	5094.3	5094.3
2.5°	4915.9	4935.5	4957.4	4981.9	5028.3	5054.0	5072.3	5093.0	5095.5	5106.5	5097.9
5°	4553.1	4576.3	4609.3	4655.7	4725.3	4834.1	4946.4	5038.1	5049.1	5100.4	5115.0
7.5°	4250.1	4263.5	4290.4	4364.9	4463.9	4584.8	4748.5	4934.2	4961.1	5083.3	5126.0
10°	4003.3	4016.8	4048.5	4125.5	4223.2	4374.7	4554.3	4798.6	4820.6	5030.7	5128.5
12.5°	3818.9	3831.1	3865.3	3941.0	4053.4	4195.1	4393.0	4652.0	4683.8	4961.1	5105.3
15°	3678.4	3701.6	3729.7	3792.0	3910.5	4047.3	4239.1	4517.6	4543.3	4887.8	5089.4
17.5°	3618.5	3629.5	3649.1	3706.5	3793.2	3927.6	4120.6	4412.6	4443.1	4836.5	5085.7
20°	3621.0	3632.0	3635.6	3667.4	3729.7	3845.7	4036.3	4329.5	4366.2	4791.3	5091.8
22.5°	3704.0	3705.3	3691.8	3680.8	3705.3	3801.8	3976.5	4267.2	4310.0	4771.8	5096.7
25°	3832.3	3854.3	3834.7	3783.4	3738.2	3784.7	3953.2	4233.0	4273.3	4743.7	5090.6
27.5°	4040.0	4043.7	4027.8	3958.1	3840.9	3806.7	3943.5	4207.4	4241.6	4722.9	5060.1
30°	4318.5	4307.5	4292.9	4215.9	4031.4	3890.9	3964.2	4184.1	4219.6	4692.3	5023.4
32.5°	4600.7	4634.9	4621.5	4531.1	4291.6	4054.6	4031.4	4181.7	4211.0	4669.1	4983.1
35°	4900.0	4915.9	4979.4	4933.0	4687.5	4319.7	4157.3	4219.6	4242.8	4670.4	4955.0
37.5°	5134.6	5177.3	5326.4	5366.7	5135.8	4670.4	4361.3	4327.1	4336.8	4730.2	4966.0
40°	5418.0	5491.3	5683.1	5848.0	5696.5	5126.0	4708.2	4526.2	4538.4	4874.4	5038.1
42.5°	5777.2	5828.5	6086.2	6309.8	6285.4	5728.3	5128.5	4852.4	4858.5	5161.5	5239.6
45°	6197.4	6270.7	6560.2	6896.2	6953.6	6410.0	5735.6	5345.9	5342.3	5607.4	5615.9
47.5°	6734.9	6780.1	7067.2	7433.7	7665.8	7266.4	6472.3	6054.5	6015.4	6257.3	6187.6
50°	7229.7	7300.6	7518.0	7918.7	8496.6	8269.3	7441.1	6973.2	6881.5	7107.5	6990.3
52.5°	7437.4	7511.9	7695.2	8192.4	9208.8	9566.7	8671.2	8069.0	7916.3	8089.7	8047.0
55°	7077.0	7173.5	7344.5	7949.3	9521.5	11063.2	10330.2	9335.8	9224.7	9150.1	9162.4
57.5°	6108.2	6199.9	6430.7	7097.8	9147.7	12149.3	12699.0	10964.3	10726.1	10382.8	10441.4
60°	4649.6	4707.0	4826.7	5565.8	8039.7	12431.5	15389.1	13022.8	12871.3	11610.5	11652.1
62.5°	3302.1	3366.9	3449.9	3818.9	5885.9	11636.2	17495.2	15897.3	15356.1	12882.3	12842.0
65°	2681.5	2637.5	2737.7	2910.0	3453.6	9018.2	17969.2	19887.2	19142.0	14557.1	13997.6
67.5°	2205.1	2158.6	2257.6	2564.2	2626.5	5234.8	16261.3	22477.1	22328.0	16378.6	15171.6
69°	1952.2	1927.8	2014.5	2363.9	2521.5	3717.5	14166.2	22837.5	22872.9	17452.4	15352.4
70°	1759.2	1768.9	1853.2	2262.5	2473.8	3065.1	12107.7	22340.3	22640.8	17988.7	15157.0
72.5°	1294.9	1315.7	1433.0	1874.0	2428.6	2600.9	7205.3	19513.4	20044.8	18020.5	13865.7
75°	905.2	895.5	999.3	1411.0	2294.3	2577.7	4231.8	15091.0	15693.3	15576.0	11650.8
77.5°	592.5	608.4	691.5	996.9	1930.2	2558.1	2758.5	10706.5	11097.4	10417.0	6891.3
80°	417.8	416.6	463.0	680.5	1431.8	2458.0	2258.8	6748.4	6649.4	4093.7	2043.8
82.5°	239.4	256.5	310.3	478.9	957.8	2163.5	2078.0	3227.6	2946.6	1166.7	690.2
85°	133.2	139.3	184.5	289.5	559.5	1629.7	1814.1	1468.4	1385.3	487.4	296.9
87.5°	42.8	46.4	77.0	146.6	254.1	769.6	1027.4	678.0	625.5	175.9	119.7
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°	5094.3	5094.3	5094.3	5094.3	5094.3	5094.3	5094.3	5094.3	5094.3	5094.3	5094.3
2.5°	5101.6	5116.3	5077.2	5039.3	5005.1	4957.4	4914.7	4879.3	4854.8	4851.2	4838.9
5°	5118.7	5119.9	5045.4	4945.2	4847.5	4740.0	4628.8	4549.4	4474.9	4433.4	4412.6
7.5°	5130.9	5119.9	4985.5	4823.1	4634.9	4439.5	4244.0	4087.6	3966.7	3919.0	3937.4
10°	5126.0	5091.8	4895.1	4634.9	4361.3	4069.3	3788.3	3568.4	3366.9	3263.0	3265.5
12.5°	5099.2	5043.0	4760.8	4423.6	4021.7	3630.7	3200.7	2903.9	2670.5	2532.5	2489.7
15°	5075.9	4978.2	4603.2	4136.5	3636.8	3078.5	2554.5	2188.0	1992.5	1883.8	1882.6
17.5°	5051.5	4915.9	4430.9	3832.3	3194.6	2476.3	1926.5	1646.8	1555.2	1566.2	1547.8
20°	5025.9	4842.6	4251.3	3493.9	2655.9	1847.1	1442.8	1329.2	1354.8	1404.9	1412.2
22.5°	4996.5	4764.4	4058.3	3121.3	2089.0	1390.2	1170.3	1153.2	1219.2	1297.4	1308.4
25°	4951.3	4666.7	3815.2	2731.6	1611.4	1120.3	1025.0	1037.2	1101.9	1167.9	1175.2
27.5°	4887.8	4545.7	3569.7	2245.4	1210.7	961.4	937.0	952.9	984.6	1025.0	1034.7
30°	4802.3	4408.9	3287.5	1825.1	970.0	882.0	872.3	880.8	899.1	916.2	921.1
32.5°	4716.8	4277.0	3002.8	1397.6	864.9	829.5	819.7	819.7	819.7	822.2	823.4
35°	4637.4	4152.4	2697.4	1088.5	810.0	788.0	774.5	759.9	757.4	748.9	748.9
37.5°	4593.4	4038.8	2372.4	911.3	769.6	753.8	735.4	711.0	697.6	698.8	696.3
40°	4601.9	3964.2	2076.8	811.2	736.7	719.5	691.5	663.4	654.8	654.8	652.4
42.5°	4698.5	3939.8	1793.4	758.6	704.9	685.3	649.9	624.3	619.4	618.2	620.6
45°	4920.8	3999.7	1539.3	724.4	678.0	648.7	613.3	590.1	585.2	585.2	583.9
47.5°	5354.5	4193.9	1357.2	702.4	658.5	620.6	583.9	560.7	552.2	549.7	549.7
50°	6028.8	4615.4	1221.6	682.9	634.0	594.9	557.1	530.2	516.8	515.5	514.3
52.5°	6965.8	5272.6	1169.1	668.2	607.2	568.1	526.5	500.9	483.8	480.1	477.7
55°	8061.6	6190.1	1241.2	657.2	579.1	537.5	494.8	467.9	452.0	444.7	443.5
57.5°	9330.9	7292.0	1514.8	642.6	553.4	504.5	463.0	436.1	419.0	410.5	408.0
60°	10470.7	8424.5	1992.5	634.0	531.4	469.1	426.4	401.9	386.0	377.5	376.3
62.5°	11722.9	9504.4	2563.0	657.2	521.6	434.9	392.1	370.2	356.7	348.2	348.2
65°	13060.6	10585.6	2940.5	735.4	536.3	408.0	355.5	337.2	325.0	318.8	317.6
67.5°	13962.2	10959.4	2422.5	816.1	573.0	378.7	320.1	305.4	298.1	292.0	292.0
69°	13864.5	10486.6	1787.3	836.8	583.9	364.1	300.5	289.5	279.8	277.3	274.9
70°	13555.4	9947.9	1497.7	823.4	575.4	350.6	288.3	274.9	266.3	263.9	262.7
72.5°	12073.5	8627.3	1115.4	715.9	489.9	304.2	255.3	243.1	235.8	232.1	232.1
75°	10030.9	7051.3	871.0	569.3	383.6	256.5	218.7	208.9	202.8	200.4	199.1
77.5°	5622.0	3937.4	625.5	445.9	290.8	207.7	183.2	174.7	168.6	166.1	166.1
80°	1566.2	1125.1	367.7	294.4	197.9	157.6	145.4	139.3	130.7	124.6	128.3
82.5°	590.1	487.4	210.1	177.1	125.8	105.1	101.4	96.5	92.8	84.3	84.3
85°	287.1	237.0	134.4	94.1	69.6	55.0	52.5	50.1	47.6	41.5	42.8
87.5°	99.0	105.1	58.6	34.2	20.8	13.4	11.0	6.1	6.1	6.1	6.1
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)