

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: P458984

Luminaire Tested: **GALN-SA5A-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458984
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-SA5A-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA 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: 21295 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

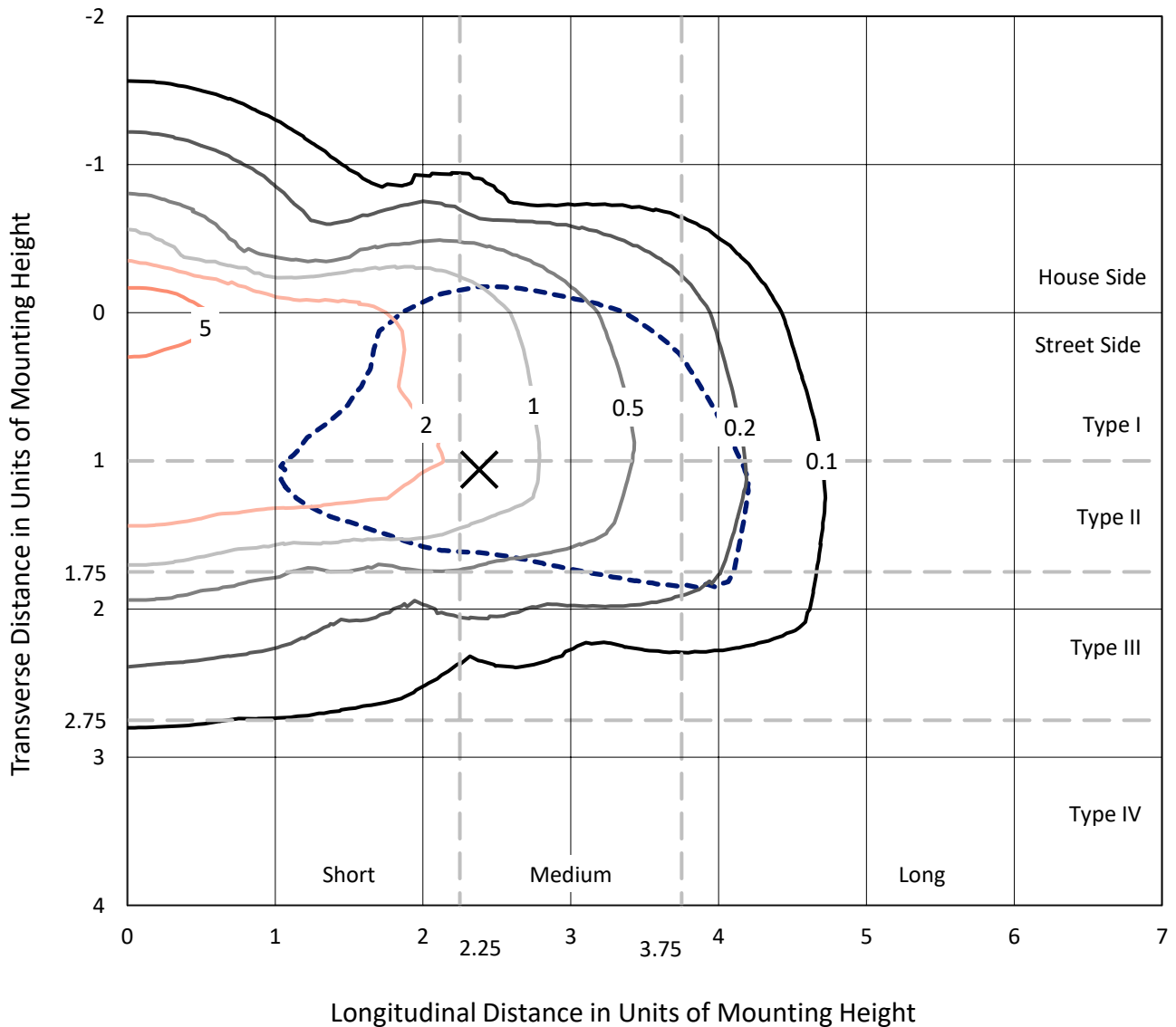
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

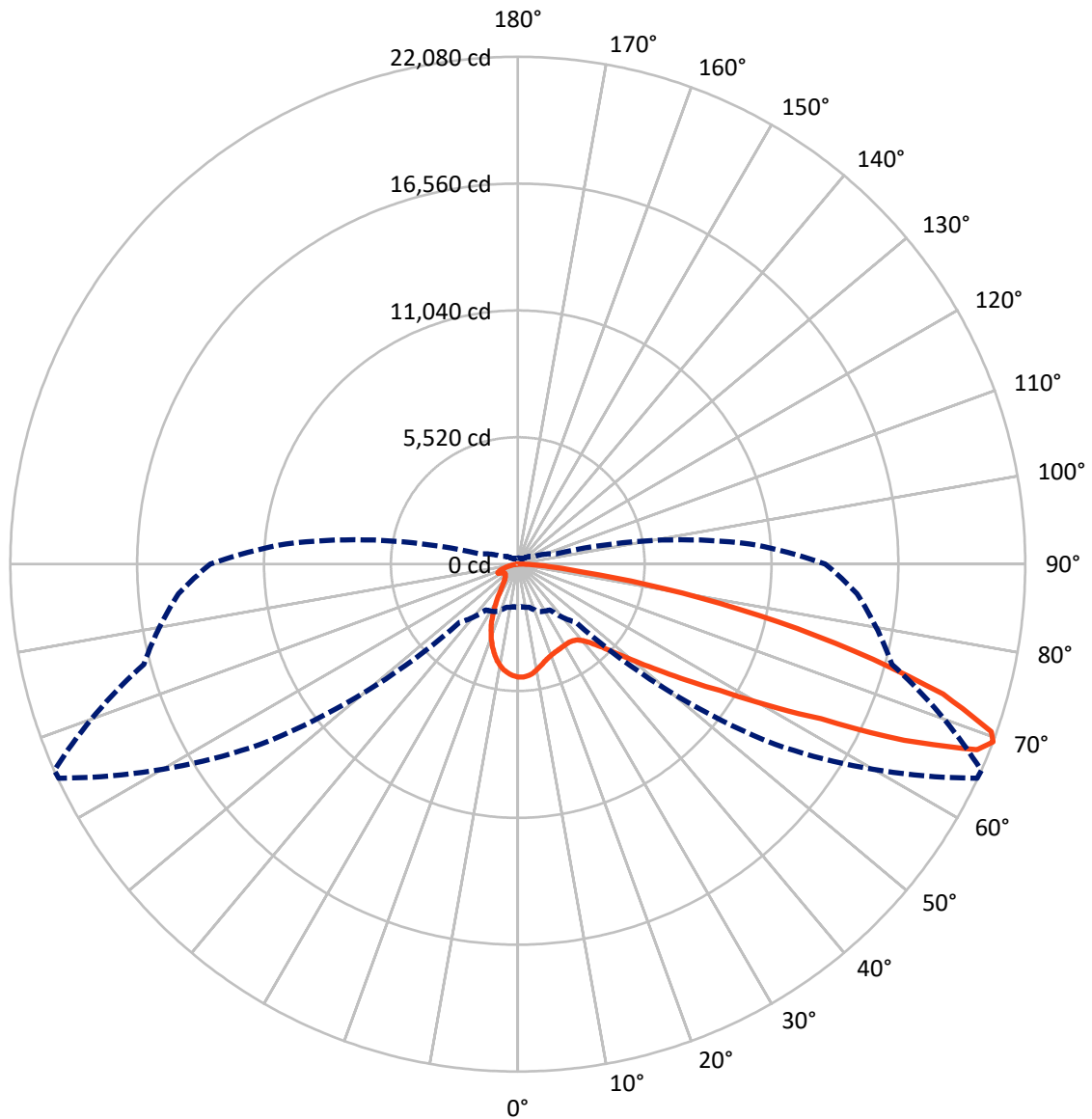
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	4004.8	0.0	4004.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	17290.2	0.0	17290.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	21295.0	0.0	21295.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.0	2.0
10°-20°	1012.9	4.8
20°-30°	1378.9	6.5
30°-40°	1853.0	8.7
40°-50°	2766.8	13.0
50°-60°	4401.1	20.7
60°-70°	5413.1	25.4
70°-80°	3522.0	16.5
80°-90°	520.1	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°	21295.0	100.0
0°-180°	21295.0	100.0



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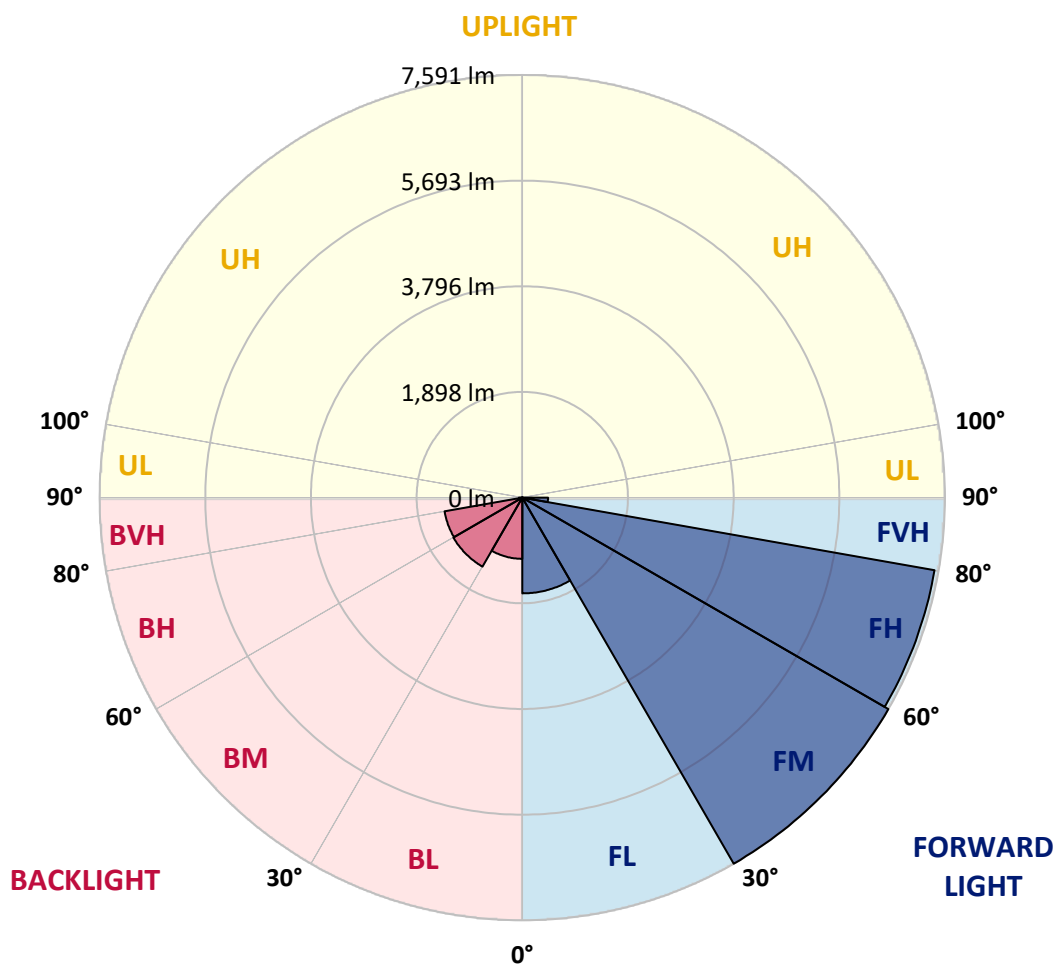
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1719.5	8.1			
FM	(30°-60°)	7591.0	35.6			
FH	(60°-80°)	7517.2	35.3			G4/12000
FVH	(80°-90°)	462.4	2.2			G3/500
BL	(0°-30°)	1099.3	5.2	B3/2500		
BM	(30°-60°)	1429.9	6.7	B2/2500		
BH	(60°-80°)	1417.9	6.7	B3/2500		G3/2500
BVH	(80°-90°)	57.7	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°	4917.6	4917.6	4917.6	4917.6	4917.6	4917.6	4917.6	4917.6	4917.6	4917.6	4917.6
2.5°	4745.4	4764.3	4785.5	4809.1	4853.9	4878.7	4896.4	4916.4	4918.8	4929.4	4921.1
5°	4395.2	4417.6	4449.4	4494.2	4561.5	4666.4	4774.9	4863.4	4874.0	4923.5	4937.7
7.5°	4102.7	4115.7	4141.6	4213.6	4309.1	4425.8	4583.9	4763.1	4789.1	4907.0	4948.3
10°	3864.5	3877.5	3908.1	3982.4	4076.8	4223.0	4396.4	4632.2	4653.4	4856.3	4950.6
12.5°	3686.4	3698.2	3731.2	3804.4	3912.9	4049.7	4240.7	4490.7	4521.4	4789.1	4928.2
15°	3550.8	3573.2	3600.3	3660.5	3774.9	3907.0	4092.1	4361.0	4385.8	4718.3	4912.9
17.5°	3493.0	3503.6	3522.5	3577.9	3661.7	3791.4	3977.7	4259.6	4289.0	4668.8	4909.4
20°	3495.4	3506.0	3509.5	3540.2	3600.3	3712.4	3896.3	4179.4	4214.8	4625.1	4915.2
22.5°	3575.6	3576.8	3563.8	3553.2	3576.8	3669.9	3838.6	4119.2	4160.5	4606.3	4920.0
25°	3699.4	3720.6	3701.8	3652.2	3608.6	3653.4	3816.2	4086.2	4125.1	4579.2	4914.1
27.5°	3899.9	3903.4	3888.1	3820.9	3707.7	3674.6	3806.7	4061.4	4094.5	4559.1	4884.6
30°	4168.8	4158.1	4144.0	4069.7	3891.6	3756.0	3826.8	4039.0	4073.2	4529.6	4849.2
32.5°	4441.2	4474.2	4461.2	4374.0	4142.8	3914.0	3891.6	4036.7	4065.0	4507.2	4810.3
35°	4730.1	4745.4	4806.8	4761.9	4524.9	4169.9	4013.1	4073.2	4095.6	4508.4	4783.2
37.5°	4956.5	4997.8	5141.7	5180.6	4957.7	4508.4	4210.0	4177.0	4186.5	4566.2	4793.8
40°	5230.1	5300.9	5486.0	5645.2	5499.0	4948.3	4545.0	4369.2	4381.0	4705.3	4863.4
42.5°	5576.8	5626.4	5875.2	6091.0	6067.4	5529.7	4950.6	4684.1	4690.0	4982.5	5057.9
45°	5982.5	6053.3	6332.7	6657.0	6712.5	6187.7	5536.7	5160.5	5157.0	5412.9	5421.2
47.5°	6501.4	6545.0	6822.1	7175.9	7400.0	7014.4	6247.8	5844.5	5806.8	6040.3	5973.1
50°	6979.0	7047.4	7257.3	7644.1	8201.9	7982.6	7183.0	6731.3	6642.9	6861.1	6747.9
52.5°	7179.5	7251.4	7428.3	7908.3	8889.4	9235.0	8370.5	7789.2	7641.7	7809.2	7767.9
55°	6831.6	6924.7	7089.8	7673.6	9191.3	10679.6	9972.0	9012.1	8904.8	8832.8	8844.6
57.5°	5896.4	5984.9	6207.7	6851.6	8830.5	11728.0	12258.6	10584.1	10354.1	10022.7	10079.3
60°	4488.3	4543.8	4659.3	5372.8	7760.9	12000.4	14855.4	12571.1	12424.9	11207.9	11248.0
62.5°	3187.6	3250.1	3330.3	3686.4	5681.8	11232.7	16888.5	15346.0	14823.6	12435.5	12396.6
65°	2588.5	2546.1	2642.8	2809.1	3333.8	8705.5	17346.1	19197.5	18478.2	14052.3	13512.2
67.5°	2128.6	2083.8	2179.3	2475.3	2535.5	5053.2	15697.4	21697.6	21553.7	15810.6	14645.5
69°	1884.5	1860.9	1944.6	2281.9	2434.0	3588.6	13675.0	22045.5	22079.7	16847.2	14820.0
70°	1698.2	1707.6	1789.0	2184.0	2388.0	2958.8	11687.9	21565.5	21855.6	17364.9	14631.4
72.5°	1250.0	1270.1	1383.3	1809.0	2344.4	2510.7	6955.4	18836.7	19349.7	17395.6	13384.9
75°	873.8	864.4	964.7	1362.1	2214.7	2488.3	4085.0	14567.7	15149.1	15035.8	11246.8
77.5°	572.0	587.3	667.5	962.3	1863.3	2469.4	2662.8	10335.2	10712.6	10055.7	6652.3
80°	403.3	402.1	446.9	656.9	1382.1	2372.7	2180.5	6514.4	6418.8	3951.8	1972.9
82.5°	231.1	247.6	299.5	462.3	924.6	2088.5	2006.0	3115.7	2844.4	1126.2	666.3
85°	128.5	134.4	178.1	279.5	540.1	1573.2	1751.2	1417.5	1337.3	470.5	286.6
87.5°	41.3	44.8	74.3	141.5	245.3	742.9	991.8	654.5	603.8	169.8	115.6
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°	4917.6	4917.6	4917.6	4917.6	4917.6	4917.6	4917.6	4917.6	4917.6	4917.6	4917.6
2.5°	4924.7	4938.8	4901.1	4864.5	4831.5	4785.5	4744.3	4710.1	4686.5	4682.9	4671.1
5°	4941.2	4942.4	4870.4	4773.7	4679.4	4575.6	4468.3	4391.6	4319.7	4279.6	4259.6
7.5°	4953.0	4942.4	4812.7	4655.8	4474.2	4285.5	4096.8	3945.9	3829.1	3783.1	3800.8
10°	4948.3	4915.2	4725.4	4474.2	4210.0	3928.2	3657.0	3444.7	3250.1	3149.9	3152.2
12.5°	4922.3	4868.1	4595.7	4270.2	3882.2	3504.8	3089.7	2803.2	2577.9	2444.7	2403.4
15°	4899.9	4805.6	4443.5	3993.0	3510.7	2971.8	2465.9	2112.1	1923.4	1818.5	1817.3
17.5°	4876.3	4745.4	4277.3	3699.4	3083.8	2390.4	1859.7	1589.7	1501.2	1511.8	1494.2
20°	4851.6	4674.7	4103.9	3372.7	2563.8	1783.1	1392.7	1283.1	1307.8	1356.2	1363.3
22.5°	4823.3	4599.2	3917.6	3013.1	2016.6	1342.0	1129.8	1113.2	1176.9	1252.4	1263.0
25°	4779.6	4504.9	3682.9	2636.9	1555.5	1081.4	989.4	1001.2	1063.7	1127.4	1134.5
27.5°	4718.3	4388.1	3445.9	2167.5	1168.7	928.1	904.5	919.8	950.5	989.4	998.9
30°	4635.8	4256.0	3173.4	1761.8	936.4	851.4	842.0	850.3	868.0	884.5	889.2
32.5°	4553.2	4128.7	2898.7	1349.1	834.9	800.7	791.3	791.3	791.3	793.7	794.8
35°	4476.6	4008.4	2603.9	1050.7	781.9	760.6	747.7	733.5	731.2	722.9	722.9
37.5°	4434.1	3898.7	2290.2	879.7	742.9	727.6	709.9	686.3	673.4	674.5	672.2
40°	4442.4	3826.8	2004.8	783.0	711.1	694.6	667.5	640.4	632.1	632.1	629.7
42.5°	4535.5	3803.2	1731.2	732.3	680.4	661.6	627.4	602.6	597.9	596.7	599.1
45°	4750.1	3861.0	1485.9	699.3	654.5	626.2	592.0	569.6	564.9	564.9	563.7
47.5°	5168.8	4048.5	1310.2	678.1	635.6	599.1	563.7	541.3	533.0	530.7	530.7
50°	5819.8	4455.3	1179.3	659.2	612.0	574.3	537.8	511.8	498.8	497.7	496.5
52.5°	6724.3	5089.8	1128.6	645.1	586.1	548.4	508.3	483.5	467.0	463.5	461.1
55°	7782.1	5975.4	1198.2	634.5	559.0	518.9	477.6	451.7	436.3	429.3	428.1
57.5°	9007.4	7039.1	1462.3	620.3	534.2	487.0	446.9	421.0	404.5	396.2	393.9
60°	10107.6	8132.3	1923.4	612.0	513.0	452.8	411.6	388.0	372.7	364.4	363.2
62.5°	11316.4	9174.8	2474.1	634.5	503.6	419.8	378.5	357.3	344.4	336.1	336.1
65°	12607.7	10218.5	2838.5	709.9	517.7	393.9	343.2	325.5	313.7	307.8	306.6
67.5°	13478.0	10579.3	2338.5	787.8	553.1	365.6	309.0	294.8	287.7	281.8	281.8
69°	13383.7	10123.0	1725.3	807.8	563.7	351.4	290.1	279.5	270.1	267.7	265.3
70°	13085.3	9602.9	1445.8	794.8	555.4	338.5	278.3	265.3	257.1	254.7	253.5
72.5°	11654.8	8328.1	1076.7	691.1	472.9	293.6	246.5	234.7	227.6	224.1	224.1
75°	9683.1	6806.8	840.8	549.5	370.3	247.6	211.1	201.7	195.8	193.4	192.2
77.5°	5427.1	3800.8	603.8	430.4	280.7	200.5	176.9	168.6	162.7	160.4	160.4
80°	1511.8	1086.1	355.0	284.2	191.0	152.1	140.3	134.4	126.2	120.3	123.8
82.5°	569.6	470.5	202.8	171.0	121.5	101.4	97.9	93.2	89.6	81.4	81.4
85°	277.1	228.8	129.7	90.8	67.2	53.1	50.7	48.4	46.0	40.1	41.3
87.5°	95.5	101.4	56.6	33.0	20.0	13.0	10.6	5.9	5.9	5.9	5.9
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)