

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: P528000

Luminaire Tested: **GALN-SA3A-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11549 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

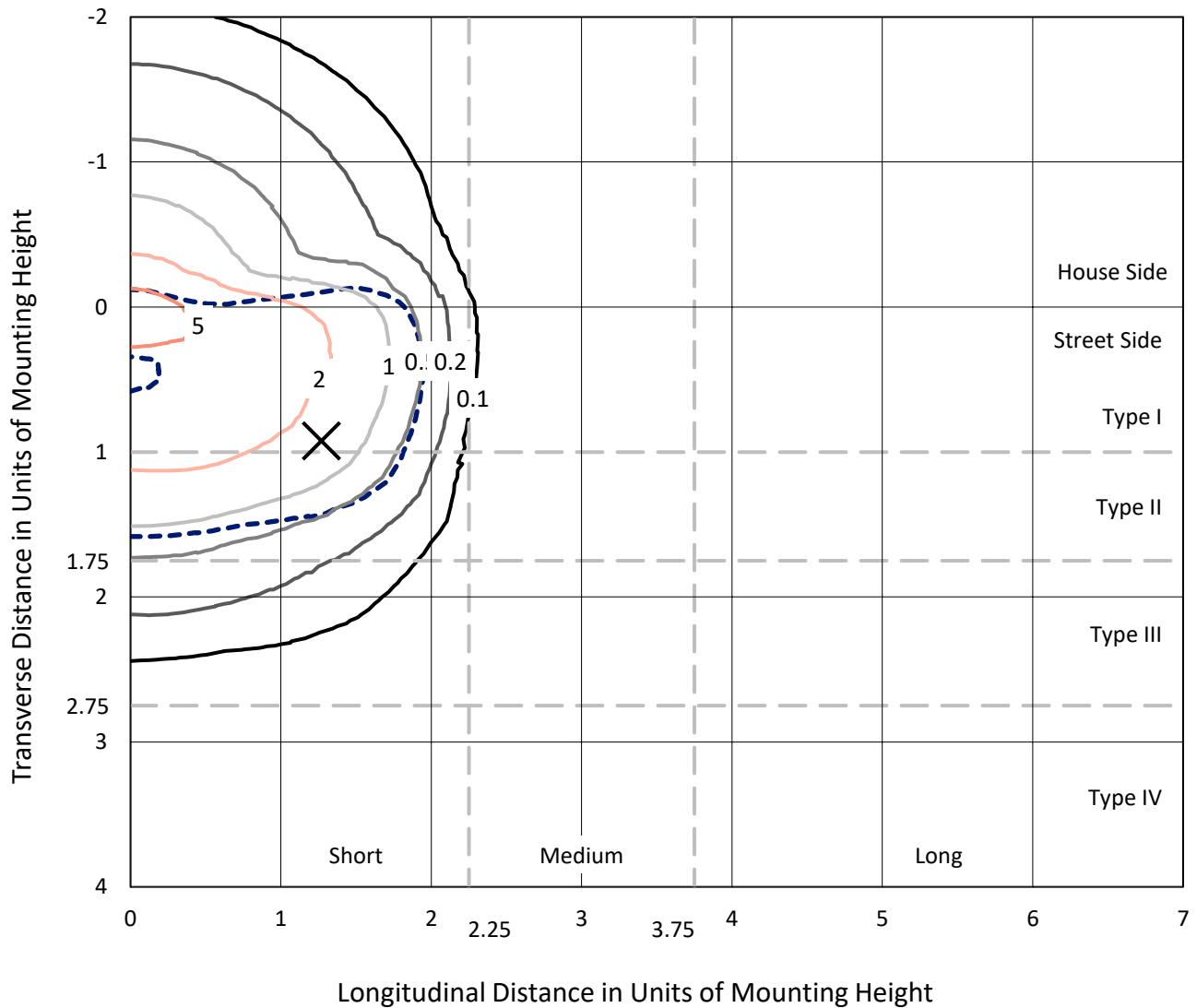
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

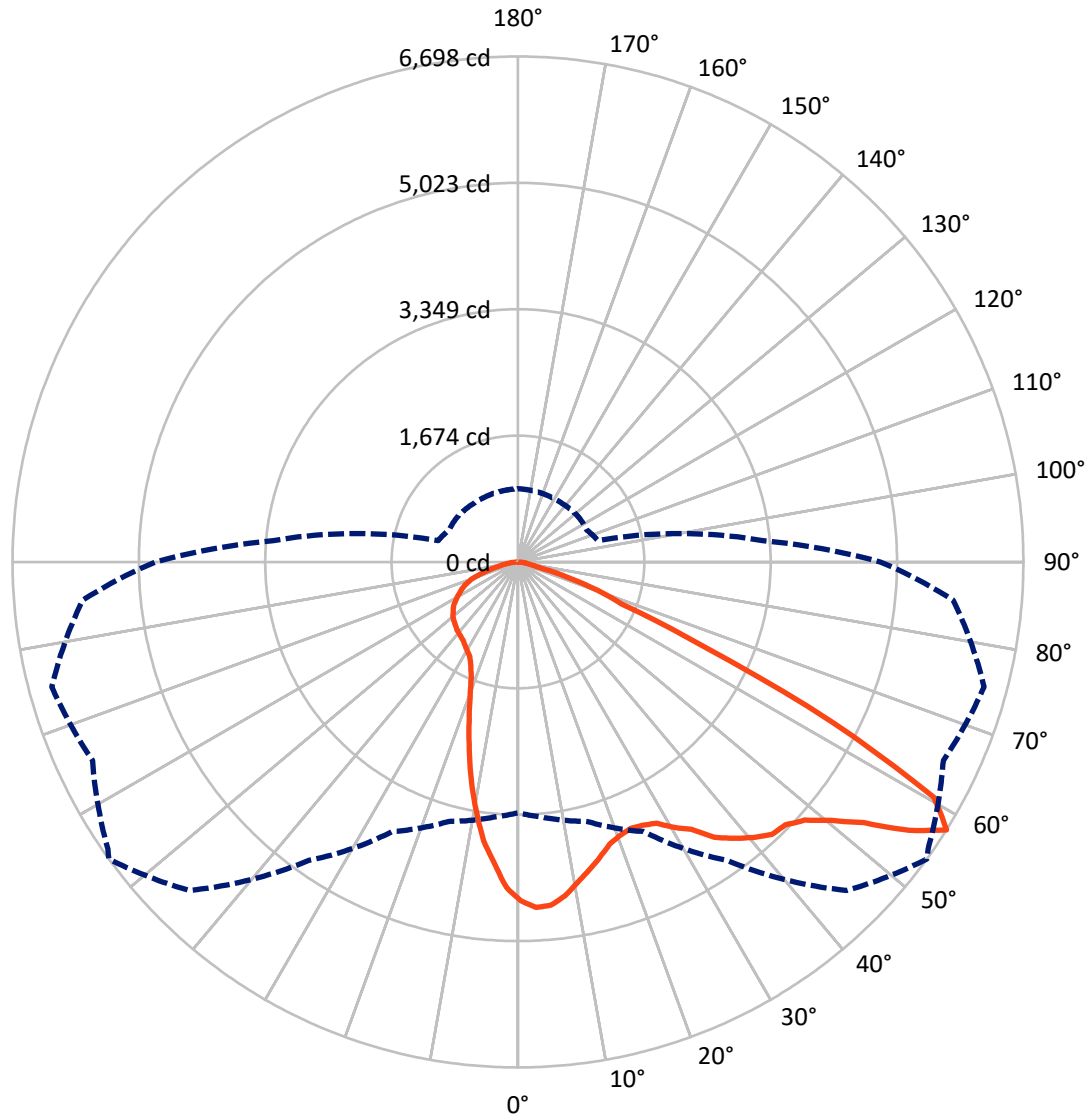
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3195.1	0.0	3195.1
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	8353.9	0.0	8353.9
	% Fixture	72.3	0.0	72.3
Total	Lumens	11549.0	0.0	11549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.1	3.4
10°-20°	896.3	7.8
20°-30°	1259.4	10.9
30°-40°	1760.6	15.2
40°-50°	2383.5	20.6
50°-60°	2903.3	25.1
60°-70°	1512.1	13.1
70°-80°	387.5	3.4
80°-90°	59.1	0.5
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°	11549.0	100.0
0°-180°	11549.0	100.0

Coefficient of Utilization

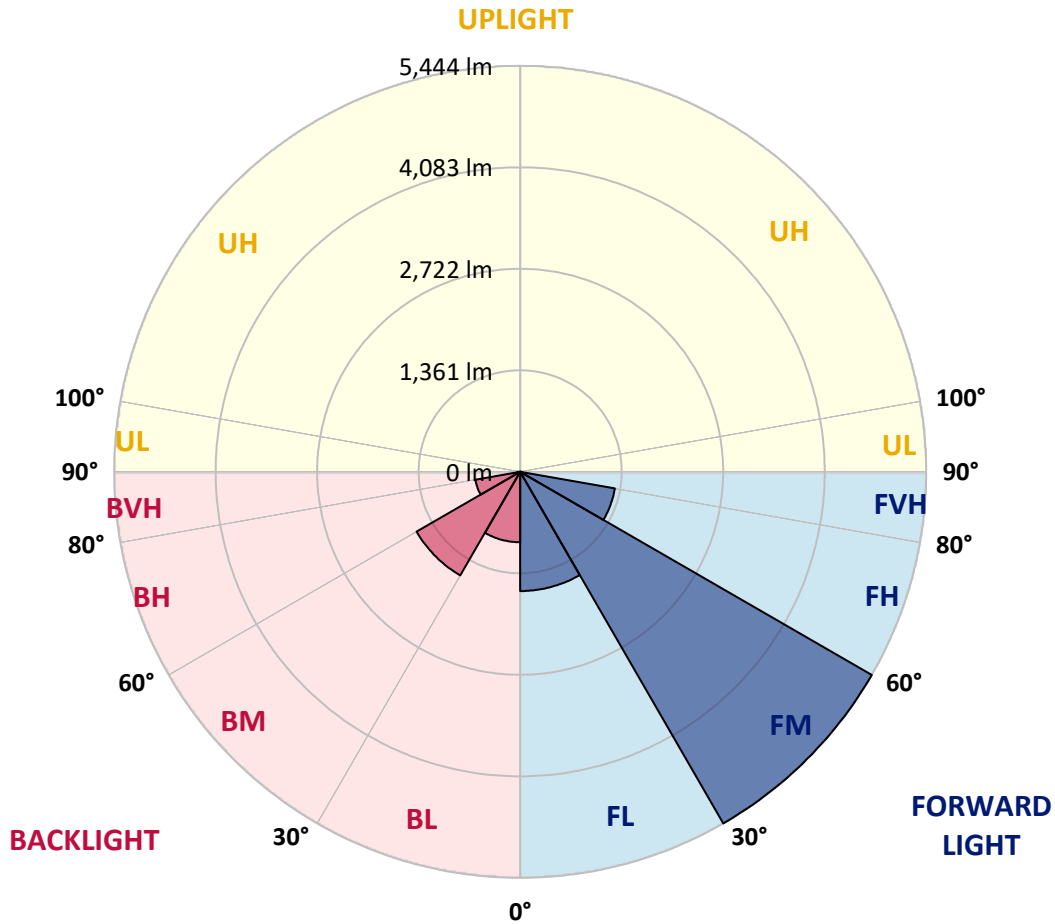


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1598.5	13.8			
FM (30°-60°)	5443.8	47.1			
FH (60°-80°)	1289.2	11.2			G1/1800
FVH (80°-90°)	22.3	0.2			G1/100
BL (0°-30°)	944.3	8.2	B2/1000		
BM (30°-60°)	1603.6	13.9	B2/2500		
BH (60°-80°)	610.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	36.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4489.0	4489.0	4489.0	4489.0	4489.0	4489.0	4489.0	4489.0	4489.0	4489.0	4489.0
2.5°	4616.6	4598.8	4601.8	4625.5	4595.8	4584.0	4584.0	4526.1	4530.5	4490.4	4480.1
5°	4509.7	4468.2	4496.4	4532.0	4538.0	4549.8	4569.1	4554.3	4512.7	4469.7	4399.9
7.5°	4230.7	4267.8	4278.2	4303.4	4356.8	4405.8	4466.7	4425.1	4423.6	4380.6	4339.0
10°	3985.7	3963.5	4019.9	4057.0	4146.1	4227.7	4321.2	4316.8	4339.0	4290.0	4218.8
12.5°	3742.3	3724.5	3751.2	3835.8	3960.5	4079.3	4190.6	4149.0	4267.8	4258.9	4106.0
15°	3484.0	3497.4	3535.9	3614.6	3777.9	3920.4	4061.4	4062.9	4168.3	4204.0	3999.1
17.5°	3302.9	3288.0	3337.0	3454.3	3599.8	3770.5	3930.8	3963.5	4125.3	4146.1	3966.4
20°	3167.8	3188.6	3252.4	3311.8	3479.5	3685.9	3867.0	3878.9	4116.4	4172.8	3914.5
22.5°	3135.1	3123.3	3144.1	3240.5	3378.6	3602.7	3832.8	3877.4	4114.9	4163.9	3816.5
25°	3101.0	3139.6	3138.1	3234.6	3335.5	3535.9	3861.0	3910.0	4193.6	4209.9	3829.9
27.5°	3178.2	3173.7	3215.3	3222.7	3347.4	3553.8	3920.4	3957.5	4324.2	4310.8	3840.3
30°	3255.4	3233.1	3258.4	3345.9	3403.8	3656.2	4083.7	4080.7	4493.4	4484.5	3872.9
32.5°	3350.4	3340.0	3356.3	3433.5	3531.5	3792.8	4221.8	4309.3	4665.6	4722.0	3985.7
35°	3368.2	3411.3	3449.9	3553.8	3693.3	4013.9	4481.5	4554.3	4864.5	5041.2	4201.0
37.5°	3481.0	3497.4	3587.9	3772.0	3899.6	4309.3	4646.3	4692.3	5045.6	5246.0	4428.1
40°	3601.3	3620.6	3757.1	3950.1	4125.3	4502.3	4800.7	4815.5	5103.5	5403.4	4576.5
42.5°	3764.6	3782.4	3917.5	4159.4	4394.0	4667.1	4937.3	4953.6	5099.1	5584.5	4812.6
45°	3933.8	3976.8	4135.7	4410.3	4621.1	4860.1	4968.4	5035.2	5140.6	5746.3	5004.1
47.5°	4171.3	4211.4	4342.0	4610.7	4857.1	5029.3	5112.4	5177.7	5240.1	5887.3	5127.3
50°	4423.6	4431.1	4589.9	4833.4	5014.5	5220.8	5381.1	5403.4	5370.7	6050.6	5336.6
52.5°	4609.2	4633.0	4756.2	4993.7	5263.8	5517.7	5737.4	5761.1	5697.3	6111.5	5407.8
55°	4301.9	4288.6	4489.0	4805.2	5431.6	5960.0	6279.2	6297.0	5934.8	6300.0	5640.9
57.5°	3325.2	3389.0	3559.7	3941.2	4825.9	6156.0	6697.8	6634.0	6219.8	6395.0	5789.3
60°	2416.7	2401.8	2516.1	2771.5	3636.9	5305.4	6332.6	6398.0	5986.8	5764.1	4774.0
62.5°	1968.4	1947.6	1956.5	1965.4	2346.9	3521.1	4687.9	4686.4	4610.7	4143.1	3219.8
65°	1573.5	1622.5	1627.0	1693.8	1742.7	2103.5	2716.5	2862.0	2492.4	2044.1	1483.0
67.5°	1186.1	1168.3	1227.6	1465.1	1557.2	1518.6	1483.0	1499.3	1065.8	768.9	724.4
70°	699.2	691.8	763.0	1021.3	1282.6	1206.9	1117.8	1119.3	731.8	537.4	598.2
72.5°	383.0	381.5	396.3	518.1	728.9	757.1	671.0	691.8	436.4	434.9	467.6
75°	213.8	209.3	204.9	228.6	262.7	277.6	283.5	286.5	299.9	335.5	348.8
77.5°	78.7	75.7	75.7	87.6	111.3	139.5	176.6	179.6	212.3	243.4	256.8
80°	26.7	29.7	40.1	54.9	74.2	99.5	120.2	123.2	149.9	170.7	175.2
82.5°	16.3	17.8	26.7	38.6	53.4	69.8	89.1	90.6	111.3	124.7	130.6
85°	7.4	8.9	14.8	23.8	34.1	46.0	47.5	47.5	46.0	47.5	44.5
87.5°	0.0	0.0	3.0	3.0	3.0	4.5	5.9	4.5	7.4	8.9	8.9
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°	4489.0	4489.0	4489.0	4489.0	4489.0	4489.0	4489.0	4489.0	4489.0	4489.0	4489.0
2.5°	4448.9	4432.6	4382.1	4337.6	4324.2	4264.8	4177.2	4187.6	4123.8	4153.5	4122.3
5°	4388.0	4333.1	4204.0	4149.0	4005.0	3939.7	3895.2	3783.9	3731.9	3721.5	3677.0
7.5°	4232.2	4198.0	4036.2	3887.8	3734.9	3604.2	3436.5	3322.2	3240.5	3218.3	3153.0
10°	4108.9	4033.2	3809.1	3583.5	3365.2	3138.1	2919.9	2749.2	2666.1	2569.6	2536.9
12.5°	3987.2	3872.9	3570.1	3280.6	2998.6	2712.1	2447.9	2240.0	2058.9	2015.9	2001.0
15°	3911.5	3712.6	3356.3	3007.5	2606.7	2232.6	1968.4	1831.8	1720.5	1674.5	1707.1
17.5°	3812.1	3580.5	3151.5	2686.8	2246.0	1901.6	1680.4	1595.8	1555.7	1560.2	1546.8
20°	3687.4	3455.8	2882.8	2395.9	1923.8	1649.2	1523.0	1491.9	1497.8	1508.2	1503.7
22.5°	3598.3	3304.4	2688.3	2099.0	1662.6	1509.7	1457.7	1435.5	1454.8	1463.7	1456.2
25°	3530.0	3175.2	2452.3	1836.3	1511.2	1431.0	1407.3	1405.8	1435.5	1447.3	1439.9
27.5°	3467.7	3055.0	2217.8	1635.9	1410.2	1370.1	1362.7	1380.5	1399.8	1411.7	1422.1
30°	3430.6	2963.0	1998.1	1468.1	1359.8	1340.5	1327.1	1343.4	1353.8	1365.7	1359.8
32.5°	3466.2	2897.6	1785.8	1373.1	1318.2	1298.9	1316.7	1306.3	1324.1	1334.5	1318.2
35°	3577.5	2839.7	1634.4	1322.6	1270.7	1278.1	1281.1	1276.6	1284.0	1275.1	1294.4
37.5°	3687.4	2819.0	1494.8	1279.6	1248.4	1248.4	1245.5	1236.5	1251.4	1248.4	1257.3
40°	3826.9	2832.3	1376.1	1233.6	1227.6	1224.7	1212.8	1211.3	1205.4	1206.9	1209.8
42.5°	3948.6	2862.0	1307.8	1203.9	1208.3	1214.3	1192.0	1174.2	1181.6	1166.8	1166.8
45°	4077.8	2888.7	1246.9	1183.1	1178.6	1177.2	1159.4	1149.0	1143.0	1144.5	1157.9
47.5°	4281.1	2927.3	1200.9	1154.9	1157.9	1135.6	1131.1	1117.8	1123.7	1132.6	1134.1
50°	4425.1	3009.0	1165.3	1122.2	1132.6	1117.8	1091.1	1085.1	1085.1	1100.0	1097.0
52.5°	4526.1	3123.3	1131.1	1086.6	1091.1	1079.2	1070.3	1056.9	1048.0	1068.8	1079.2
55°	4834.8	3313.3	1122.2	1056.9	1055.4	1043.6	1027.2	1013.9	1009.4	1012.4	1033.2
57.5°	4805.2	3253.9	1094.0	1005.0	1002.0	985.7	969.3	964.9	963.4	966.4	972.3
60°	3901.1	2403.3	976.8	945.6	941.1	938.2	921.8	904.0	895.1	904.0	896.6
62.5°	2581.5	1609.1	861.0	874.3	877.3	869.9	843.2	825.4	828.3	838.7	822.4
65°	1267.7	945.6	780.8	816.4	819.4	798.6	773.4	752.6	742.2	751.1	743.7
67.5°	724.4	722.9	715.5	752.6	751.1	730.3	690.3	672.5	654.6	657.6	653.2
70°	614.6	626.4	641.3	663.5	662.1	638.3	590.8	577.4	552.2	549.2	541.8
72.5°	483.9	504.7	537.4	553.7	540.3	510.6	479.5	457.2	434.9	421.6	426.0
75°	359.2	388.9	406.7	417.1	396.3	380.0	354.8	328.1	301.3	289.5	285.0
77.5°	261.3	270.2	286.5	293.9	280.6	264.2	249.4	222.7	197.4	181.1	176.6
80°	182.6	188.5	200.4	200.4	200.4	193.0	173.7	147.0	130.6	115.8	112.8
82.5°	127.7	133.6	145.5	139.5	138.1	129.1	117.3	96.5	78.7	68.3	65.3
85°	44.5	49.0	59.4	71.3	75.7	74.2	66.8	53.4	41.6	34.1	31.2
87.5°	10.4	10.4	11.9	10.4	10.4	11.9	10.4	10.4	10.4	7.4	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)