

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: P528683

Luminaire Tested: **GALN-SA3D-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14228 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

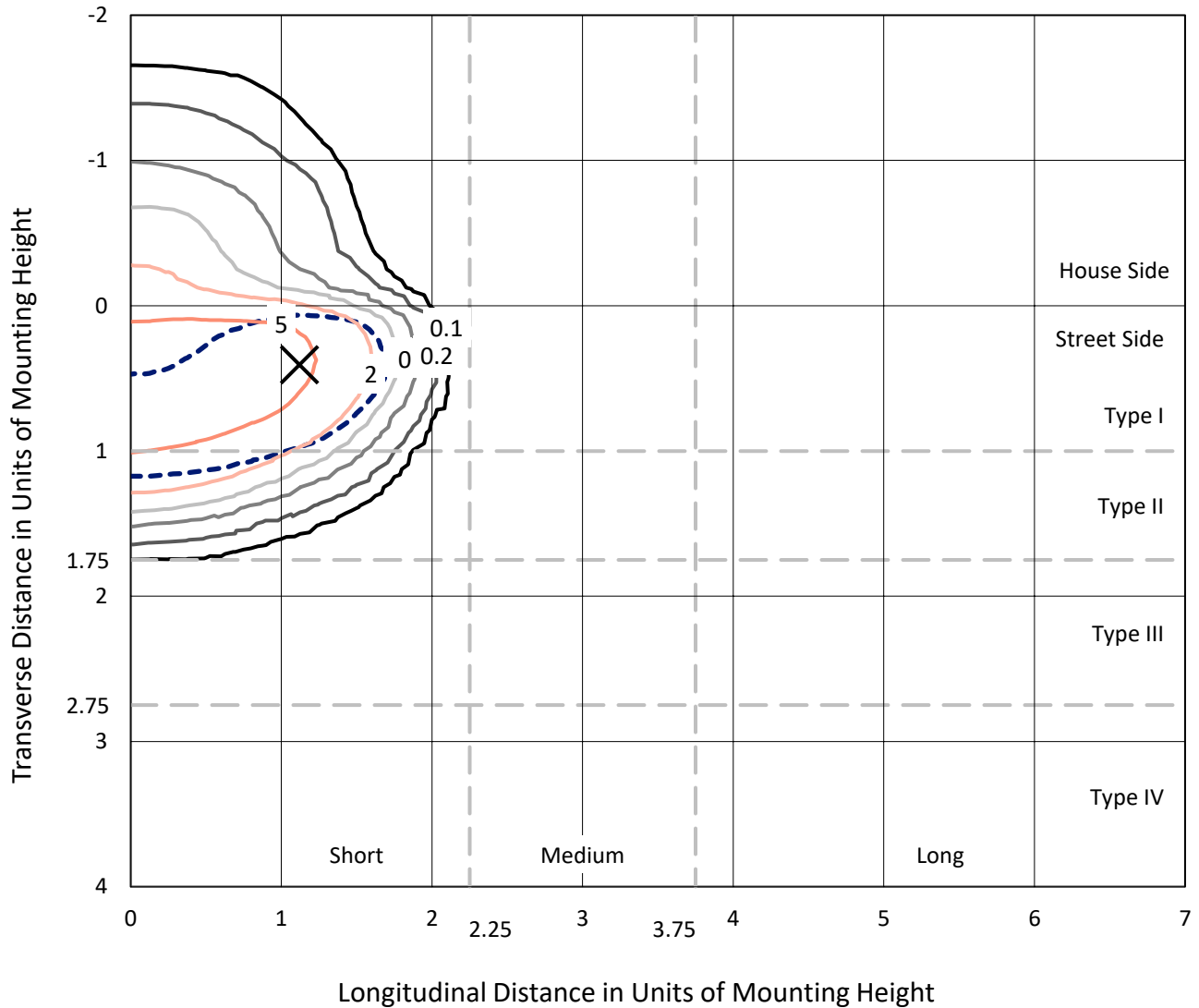
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

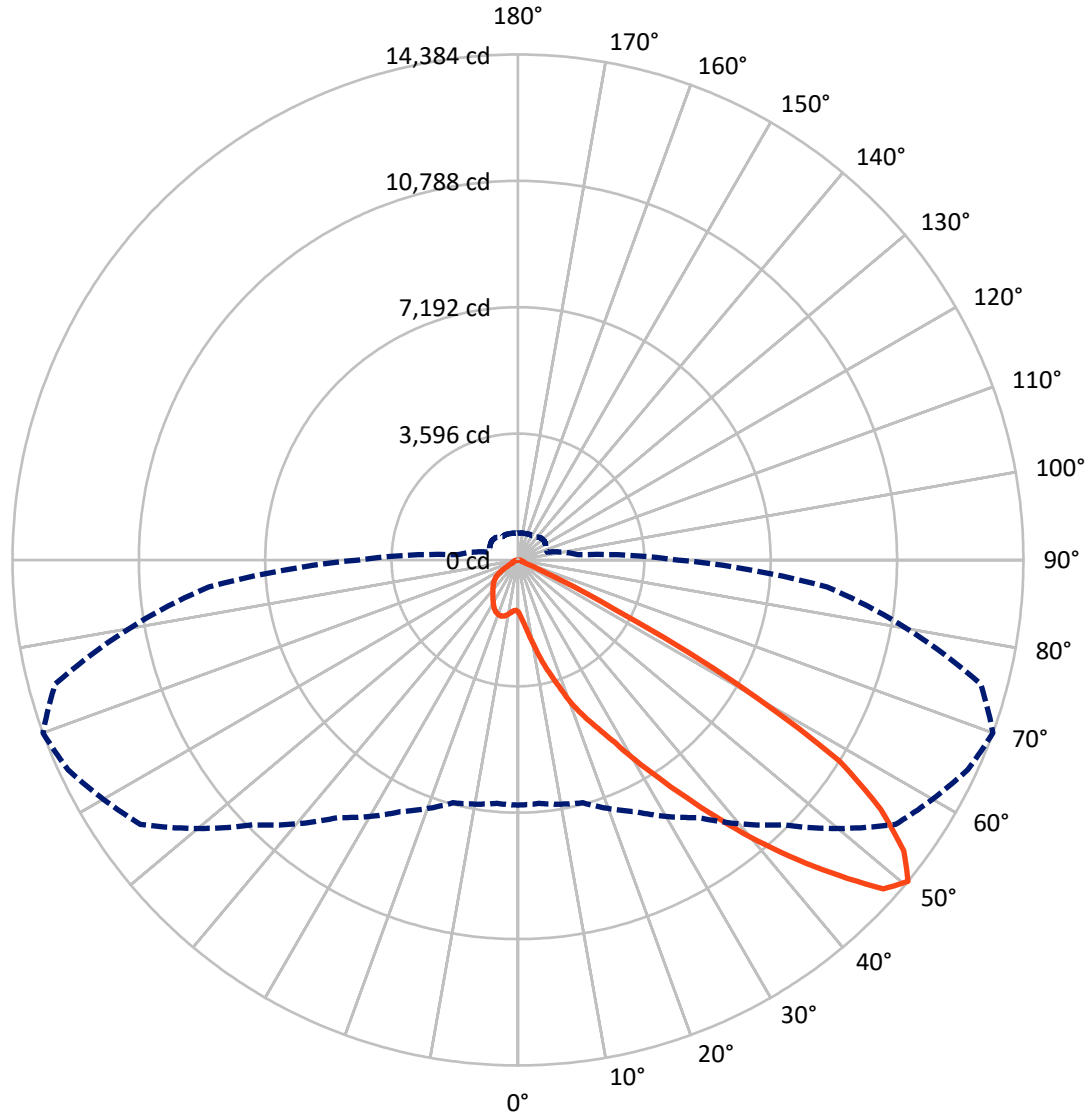
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1987.0	0.0	1987.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12241.0	0.0	12241.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	14228.0	0.0	14228.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.6	1.3
10°-20°	829.0	5.8
20°-30°	1739.0	12.2
30°-40°	2997.5	21.1
40°-50°	4380.8	30.8
50°-60°	3411.9	24.0
60°-70°	578.1	4.1
70°-80°	79.4	0.6
80°-90°	20.6	0.1
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°	14228.0	100.0
0°-180°	14228.0	100.0

Coefficient of Utilization



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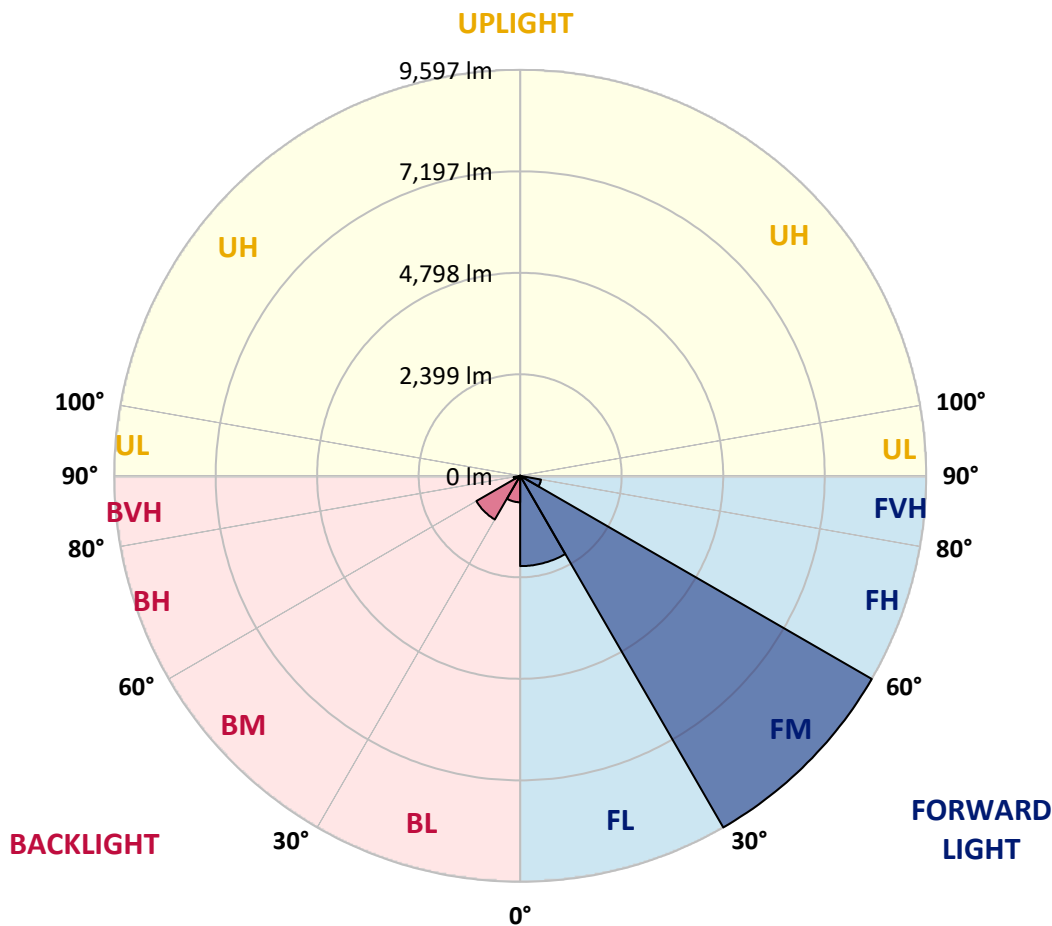
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2134.4	15.0			
FM (30°-60°)	9596.5	67.4			
FH (60°-80°)	500.5	3.5			G0/660
FVH (80°-90°)	9.5	0.1			G0/10
BL (0°-30°)	625.3	4.4	B2/1000		
BM (30°-60°)	1193.7	8.4	B2/2500		
BH (60°-80°)	157.0	1.1	B1/500		G1/500
BVH (80°-90°)	11.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7
2.5°	1929.9	1915.9	1885.5	1829.3	1805.9	1749.8	1717.0	1653.9	1614.1	1569.7	1520.5
5°	2718.2	2645.7	2601.3	2538.1	2353.3	2238.7	2049.2	1887.8	1812.9	1731.1	1618.8
7.5°	3532.3	3485.5	3424.7	3289.0	3162.7	2924.1	2598.9	2243.4	2091.3	1951.0	1728.7
10°	4206.0	4075.0	4068.0	3967.4	3829.4	3544.0	3153.3	2711.2	2439.9	2234.0	1885.5
12.5°	4676.2	4556.9	4610.7	4599.0	4470.3	4208.3	3756.9	3172.1	2889.0	2568.5	2046.9
15°	5104.3	5055.2	5038.8	5024.8	4973.3	4779.1	4374.4	3733.5	3324.1	2938.1	2229.3
17.5°	5523.0	5396.7	5457.5	5469.2	5464.5	5289.1	4910.1	4266.8	3784.9	3328.8	2421.1
20°	5895.0	5906.7	5824.8	5808.4	5794.4	5787.4	5417.8	4795.5	4351.0	3738.2	2671.4
22.5°	6372.2	6290.3	6362.8	6316.0	6224.8	6168.7	5885.6	5263.4	4842.3	4231.7	2926.4
25°	6935.9	7001.4	6830.7	6812.0	6711.4	6517.2	6262.2	5787.4	5314.8	4690.2	3202.5
27.5°	7630.7	7516.1	7471.6	7368.7	7186.2	7104.4	6804.9	6327.7	5885.6	5172.1	3469.1
30°	8227.2	8196.8	7974.6	7852.9	7693.9	7691.5	7272.8	7059.9	6629.5	5927.7	3836.4
32.5°	8713.8	8580.4	8498.6	8414.4	8285.7	8320.8	7967.6	7855.3	7422.5	6629.5	4269.2
35°	9038.9	8943.0	8893.9	8765.2	8727.8	8884.6	8737.2	8690.4	8334.8	7616.7	4776.8
37.5°	9141.9	9172.3	9162.9	9001.5	9081.0	9504.5	9693.9	9572.3	9385.2	8657.6	5326.5
40°	9233.1	9254.2	9207.4	9396.9	9623.8	10105.7	10791.1	10589.9	10519.7	9712.7	6091.5
42.5°	9284.6	9268.2	9268.2	9595.7	9939.6	10908.0	11850.7	11717.4	11663.6	10835.5	6975.7
45°	9062.3	8903.3	9074.0	9518.5	10210.9	11303.4	12697.6	12882.4	12805.2	12171.2	8009.7
47.5°	8231.9	8330.1	8426.1	9020.2	9881.1	11181.7	13216.9	13846.1	13988.8	13294.1	8688.1
50°	6975.7	6954.7	7153.5	7902.1	8947.7	10657.7	13116.3	14124.5	14384.2	13630.9	8830.7
52.5°	5073.9	5228.3	5443.5	6187.4	7427.2	9300.9	11818.0	13406.4	13752.6	13216.9	8737.2
55°	2954.5	2783.7	3268.0	3897.2	5066.9	7015.5	9991.0	11883.5	12524.5	12463.6	8264.6
57.5°	1183.7	1146.2	1312.3	1768.5	2643.4	4348.7	7265.8	9764.1	10791.1	11415.6	7263.4
60°	519.3	507.6	596.5	720.5	1080.7	2004.8	3974.4	6072.7	7144.1	7976.9	4999.0
62.5°	374.3	369.6	414.1	458.5	570.8	872.5	1670.2	2446.9	3050.4	3684.4	2238.7
65°	301.8	313.5	343.9	367.3	421.1	484.2	589.5	680.7	835.1	865.5	493.6
67.5°	245.6	255.0	283.1	308.8	318.1	262.0	271.4	238.6	238.6	212.9	170.8
70°	180.1	182.5	215.2	245.6	196.5	105.3	184.8	184.8	166.1	159.1	145.0
72.5°	133.3	135.7	161.4	152.1	77.2	65.5	135.7	149.7	135.7	128.7	117.0
75°	98.2	100.6	84.2	35.1	32.7	42.1	79.5	102.9	98.2	95.9	88.9
77.5°	18.7	14.0	11.7	16.4	23.4	35.1	51.5	63.2	65.5	70.2	65.5
80°	2.3	2.3	7.0	14.0	25.7	37.4	53.8	60.8	63.2	65.5	60.8
82.5°	0.0	2.3	7.0	14.0	25.7	35.1	46.8	53.8	58.5	60.8	58.5
85°	0.0	2.3	4.7	11.7	21.1	25.7	23.4	16.4	14.0	16.4	11.7
87.5°	0.0	0.0	2.3	2.3	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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°	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7
2.5°	1492.5	1483.1	1450.3	1415.3	1384.8	1398.9	1384.8	1373.2	1377.8	1373.2	1368.5
5°	1574.3	1532.2	1462.0	1431.6	1405.9	1403.6	1396.5	1394.2	1396.5	1396.5	1375.5
7.5°	1651.5	1583.7	1508.8	1476.1	1445.7	1448.0	1431.6	1431.6	1429.3	1417.6	1412.9
10°	1768.5	1677.3	1581.3	1522.9	1485.4	1478.4	1462.0	1445.7	1445.7	1445.7	1422.3
12.5°	1897.1	1782.5	1651.5	1583.7	1539.2	1504.2	1478.4	1473.7	1448.0	1443.3	1431.6
15°	2009.4	1864.4	1698.3	1604.7	1548.6	1501.8	1462.0	1436.3	1424.6	1417.6	1408.2
17.5°	2119.4	1934.6	1724.0	1604.7	1543.9	1490.1	1448.0	1424.6	1396.5	1401.2	1382.5
20°	2266.8	2009.4	1731.1	1574.3	1499.5	1448.0	1391.9	1380.2	1363.8	1349.8	1354.4
22.5°	2409.4	2063.2	1710.0	1536.9	1429.3	1368.5	1340.4	1326.4	1319.3	1307.7	1291.3
25°	2538.1	2121.7	1677.3	1469.1	1354.4	1310.0	1284.3	1281.9	1265.5	1265.5	1235.1
27.5°	2669.1	2142.8	1621.1	1389.5	1288.9	1263.2	1251.5	1246.8	1239.8	1223.4	1202.4
30°	2818.8	2149.8	1539.2	1307.7	1230.5	1202.4	1218.8	1230.5	1200.0	1169.6	1179.0
32.5°	2942.8	2133.4	1441.0	1230.5	1188.3	1174.3	1207.1	1218.8	1183.7	1150.9	1134.5
35°	3092.5	2093.6	1345.1	1169.6	1146.2	1174.3	1202.4	1202.4	1132.2	1092.4	1083.1
37.5°	3319.4	2049.2	1256.2	1118.2	1101.8	1160.3	1197.7	1172.0	1062.0	1012.9	1001.2
40°	3562.7	2021.1	1169.6	1066.7	1078.4	1136.9	1157.9	1078.4	966.1	935.7	926.4
42.5°	3915.9	1965.0	1092.4	1022.3	1057.4	1104.1	1104.1	961.4	919.3	903.0	900.6
45°	4355.7	1925.2	1024.6	984.8	1026.9	1038.6	1001.2	900.6	870.2	865.5	867.9
47.5°	4570.9	1848.0	954.4	940.4	970.8	973.1	874.9	851.5	825.8	818.7	814.1
50°	4538.2	1710.0	863.2	881.9	924.0	900.6	797.7	802.4	779.0	776.6	764.9
52.5°	4308.9	1492.5	772.0	816.4	863.2	795.4	734.5	729.9	729.9	699.4	687.7
55°	3820.0	1202.4	662.0	718.2	774.3	669.0	652.7	648.0	636.3	608.2	601.2
57.5°	3024.7	881.9	498.3	559.1	657.3	568.4	566.1	545.1	514.6	493.6	493.6
60°	1798.9	507.6	313.5	341.5	435.1	460.8	512.3	502.9	451.5	418.7	409.4
62.5°	821.1	262.0	198.8	203.5	233.9	299.4	402.4	465.5	393.0	336.9	332.2
65°	276.0	194.2	163.7	156.7	161.4	180.1	240.9	329.8	313.5	259.7	250.3
67.5°	168.4	173.1	154.4	142.7	142.7	140.4	138.0	149.7	184.8	180.1	182.5
70°	145.0	159.1	142.7	128.7	124.0	117.0	98.2	81.9	70.2	81.9	86.6
72.5°	117.0	126.3	121.6	109.9	98.2	88.9	70.2	53.8	39.8	35.1	35.1
75°	86.6	93.6	98.2	84.2	74.9	63.2	51.5	35.1	21.1	14.0	14.0
77.5°	63.2	70.2	72.5	65.5	56.1	44.4	32.7	23.4	11.7	4.7	4.7
80°	53.8	63.2	70.2	65.5	58.5	42.1	30.4	16.4	9.4	2.3	2.3
82.5°	51.5	63.2	70.2	63.2	56.1	39.8	30.4	18.7	7.0	2.3	2.3
85°	11.7	16.4	21.1	25.7	30.4	30.4	23.4	14.0	7.0	2.3	2.3
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	2.3	2.3	0.0
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)