

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: P532428

Luminaire Tested: **GALN-SA7D-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44107 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

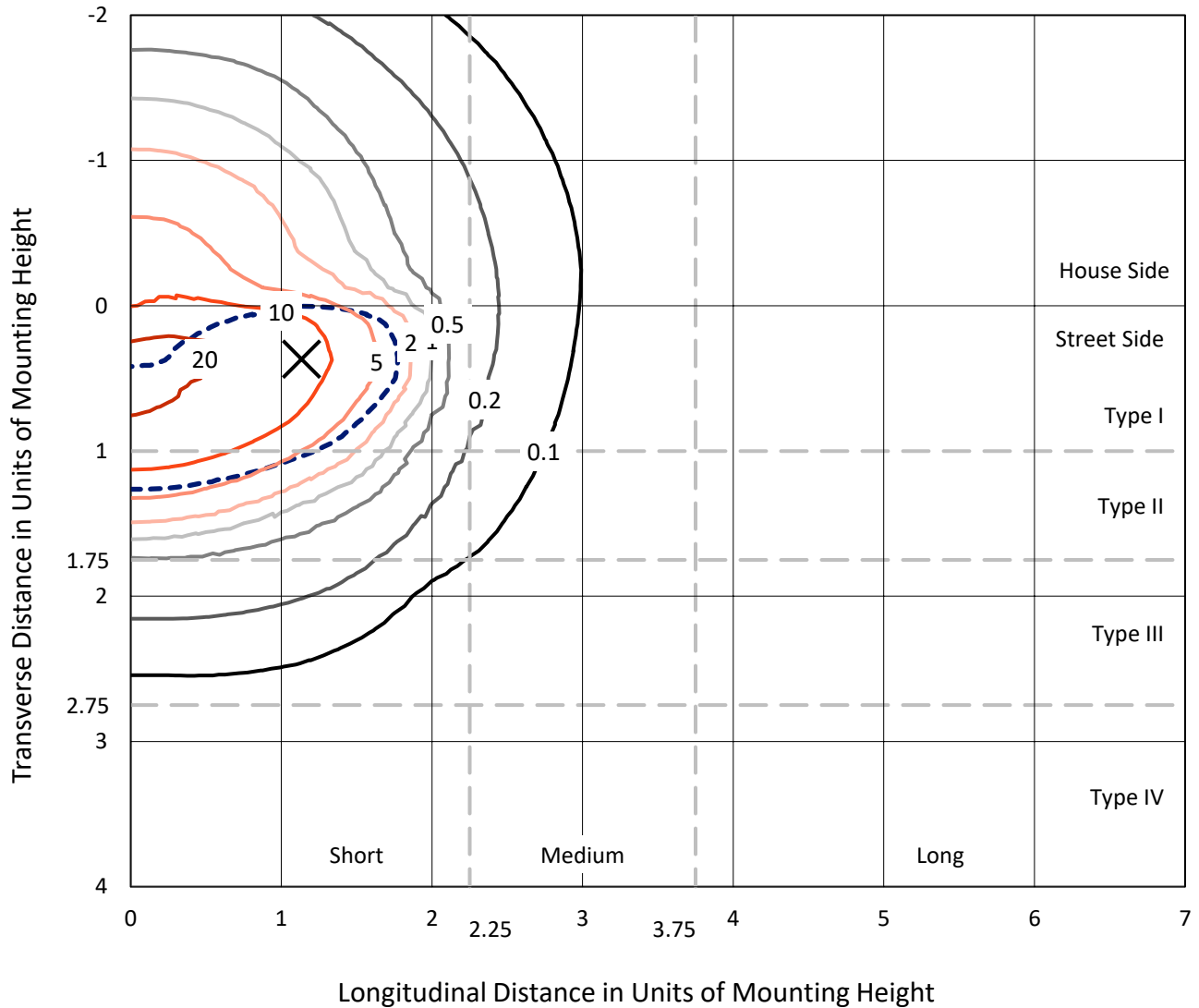
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

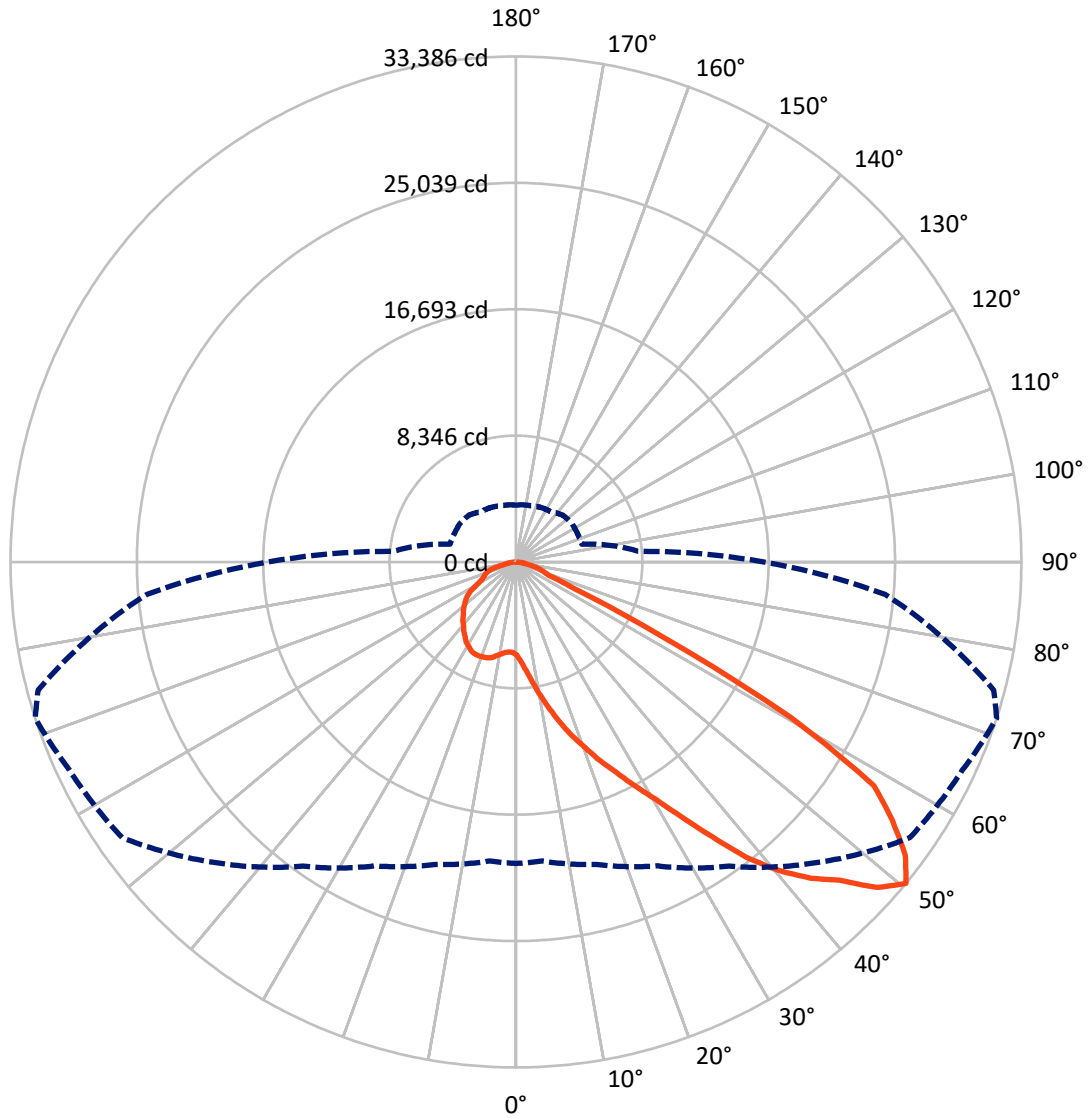
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10105.2	0.0	10105.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	34001.8	0.0	34001.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	44107.0	0.0	44107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	722.2	1.6
10°-20°	2699.9	6.1
20°-30°	5235.0	11.9
30°-40°	8672.6	19.7
40°-50°	12134.8	27.5
50°-60°	10237.2	23.2
60°-70°	3120.3	7.1
70°-80°	1094.7	2.5
80°-90°	190.3	0.4
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°	44107.0	100.0
0°-180°	44107.0	100.0

Coefficient of Utilization



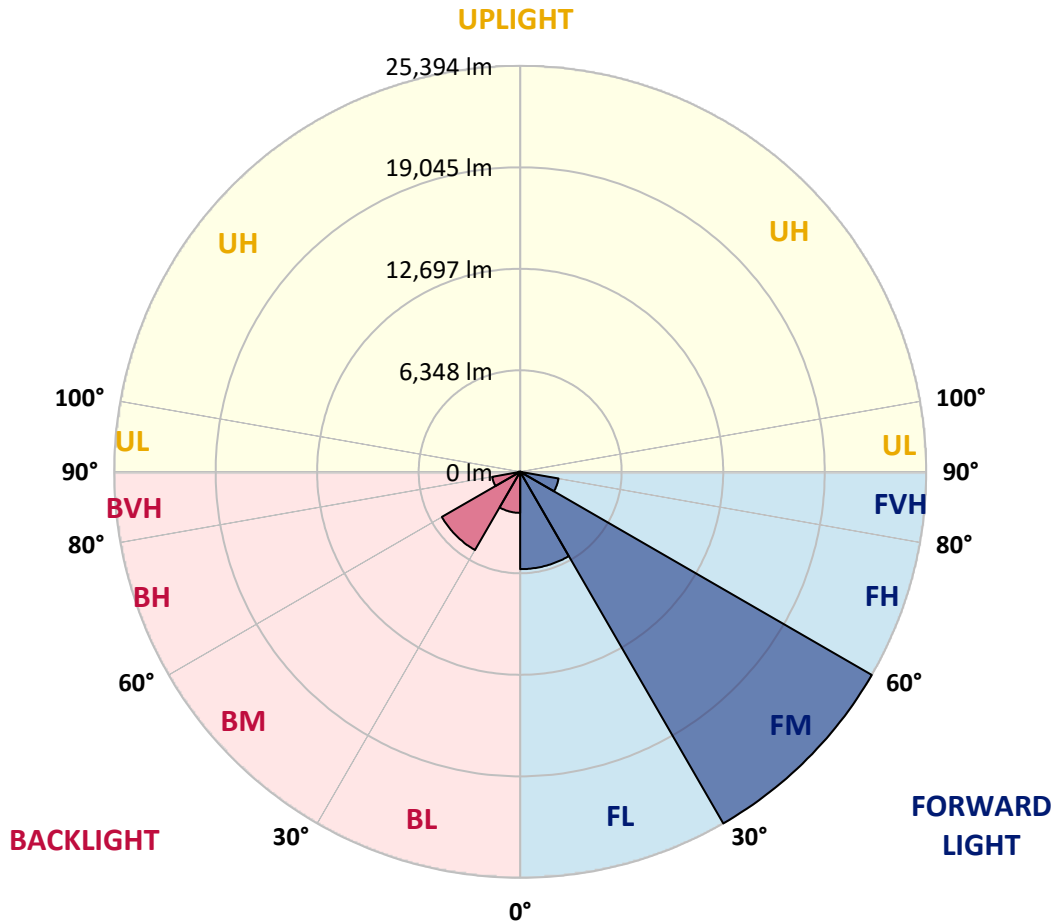
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6088.4	13.8			
FM (30°-60°)	25393.6	57.6			
FH (60°-80°)	2434.6	5.5			G2/5000
FVH (80°-90°)	85.2	0.2			G1/100
BL (0°-30°)	2568.8	5.8	B4/5000		
BM (30°-60°)	5651.0	12.8	B4/8500		
BH (60°-80°)	1780.3	4.0	B3/2500		G3/2500
BVH (80°-90°)	105.1	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6140.1	6140.1	6140.1	6140.1	6140.1	6140.1	6140.1	6140.1	6140.1	6140.1	6140.1
2.5°	7897.5	7848.4	7701.0	7651.9	7477.2	7160.7	7051.5	6729.5	6593.1	6467.5	6320.2
5°	9987.8	9758.6	9742.2	9463.9	9060.0	8825.3	8126.7	7657.4	7226.2	7007.9	6604.0
7.5°	11319.6	11325.0	11325.0	11095.8	10773.8	10178.9	9551.2	8705.3	8055.8	7733.8	7046.1
10°	12585.8	12476.6	12416.6	12394.8	12176.4	11597.9	10926.6	9878.7	8989.1	8612.5	7379.0
12.5°	13480.9	13388.1	13524.5	13453.6	13295.3	12918.7	12285.6	11090.3	9976.9	9469.4	7913.9
15°	13906.6	13972.1	14081.2	14277.7	14206.8	14064.9	13366.3	12334.7	11041.2	10468.1	8388.7
17.5°	14561.5	14381.4	14512.4	14758.0	14954.5	14889.0	14490.6	13235.3	12094.6	11390.5	9027.3
20°	15020.0	14916.3	14981.8	15265.6	15412.9	15784.1	15576.7	14414.2	13104.3	12362.0	9780.5
22.5°	16329.9	16177.0	15964.2	16007.8	16062.4	16324.4	16373.5	15707.7	14277.7	13491.8	10495.4
25°	17945.4	17803.5	17552.4	17295.9	17137.6	17088.5	17257.7	16722.8	15402.0	14588.8	11265.0
27.5°	19724.6	19484.5	19326.2	18796.8	18371.1	18305.6	18223.7	17934.5	16733.7	15855.0	12132.8
30°	21454.8	21263.7	21050.9	20204.9	19762.8	19691.9	19288.0	19369.9	18180.1	17203.1	13115.2
32.5°	22764.7	22781.0	22295.3	21656.7	21241.9	20865.3	20718.0	20952.6	20035.7	19249.8	14212.2
35°	23823.5	23872.6	23408.7	22830.1	22382.6	22644.6	22579.1	22688.2	22251.6	21291.0	15489.4
37.5°	24855.0	24609.4	24112.7	23834.4	23599.7	24030.9	24587.6	24680.4	24762.2	23632.4	16973.9
40°	25024.2	25046.0	24756.8	24953.2	24658.5	25308.0	26601.5	26481.4	26814.4	25826.5	18583.9
42.5°	24784.1	24833.2	24947.8	25226.1	25935.7	26716.1	28637.3	28146.1	28550.0	27671.3	20150.3
45°	24391.1	24189.1	24331.1	25389.9	26617.9	28353.5	30498.4	30116.4	29985.4	29248.6	22016.9
47.5°	22513.6	22721.0	23163.1	24467.5	26312.2	28637.3	31819.2	31731.9	32124.8	31606.4	23714.3
50°	19910.2	19828.3	20679.8	22147.9	24527.5	28080.6	31748.3	32539.6	33385.6	32665.2	24473.0
52.5°	14910.8	15347.4	16078.8	17901.7	21296.5	25046.0	30198.2	31519.0	32206.7	32053.9	23861.7
55°	9425.7	9556.7	9998.8	12165.5	15221.9	20101.2	25886.5	28948.4	30176.4	30749.5	23299.5
57.5°	4579.1	4333.5	4873.9	6614.9	8792.6	13519.1	19964.8	25215.2	27884.1	28921.1	22077.0
60°	2390.5	2483.3	2696.2	3318.4	4546.4	7018.8	12443.9	16804.7	20881.7	22475.4	16733.7
62.5°	1981.2	2013.9	2155.8	2466.9	3023.6	4038.8	6352.9	8192.2	10648.2	12083.7	9518.5
65°	1681.0	1697.4	1850.2	2057.6	2412.4	2843.5	3269.2	3422.1	4142.5	4251.7	3383.9
67.5°	1402.7	1419.0	1582.8	1779.3	2008.5	2123.1	2232.3	2221.3	2303.2	2270.5	2265.0
70°	1080.7	1097.0	1266.2	1473.6	1588.2	1522.7	1861.1	1937.5	1970.3	1997.6	2041.2
72.5°	780.5	813.2	944.2	1091.6	1031.5	1184.4	1533.7	1648.3	1691.9	1708.3	1762.9
75°	567.6	578.5	611.3	567.6	654.9	824.1	1080.7	1222.6	1277.1	1293.5	1375.4
77.5°	251.1	256.5	262.0	327.5	420.3	513.0	644.0	758.6	835.0	856.9	878.7
80°	131.0	136.4	169.2	223.8	300.2	376.6	469.4	534.9	584.0	589.4	611.3
82.5°	81.9	87.3	120.1	158.3	212.9	278.3	343.8	398.4	436.6	442.1	447.5
85°	38.2	49.1	71.0	98.2	141.9	180.1	185.6	158.3	169.2	174.7	163.7
87.5°	10.9	16.4	21.8	16.4	21.8	21.8	27.3	32.7	32.7	32.7	38.2
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°	6140.1	6140.1	6140.1	6140.1	6140.1	6140.1	6140.1	6140.1	6140.1	6140.1	6140.1
2.5°	6238.3	6189.2	5998.2	5927.2	5741.6	5774.4	5676.2	5670.7	5648.9	5643.4	5637.9
5°	6391.1	6238.3	6009.1	5834.4	5730.7	5719.8	5648.9	5648.9	5670.7	5687.1	5648.9
7.5°	6642.2	6467.5	6080.0	5916.3	5823.5	5807.1	5758.0	5719.8	5768.9	5752.6	5708.9
10°	6931.5	6625.8	6216.5	6074.6	5921.8	5883.6	5883.6	5899.9	5818.1	5845.3	5801.7
12.5°	7253.5	6844.1	6391.1	6227.4	6047.3	6025.5	6014.5	5894.5	5938.1	5916.3	5807.1
15°	7662.8	7095.2	6614.9	6336.6	6183.7	6085.5	5943.6	5921.8	5894.5	5839.9	5790.8
17.5°	8104.9	7368.1	6718.6	6369.3	6140.1	6069.1	5960.0	5845.3	5763.5	5774.4	5736.2
20°	8481.5	7619.1	6756.8	6402.0	6107.3	5970.9	5801.7	5730.7	5643.4	5637.9	5632.5
22.5°	8929.0	7957.5	6811.4	6314.7	6009.1	5867.2	5752.6	5627.0	5567.0	5490.6	5528.8
25°	9463.9	8088.5	6822.3	6265.6	5938.1	5687.1	5627.0	5490.6	5468.8	5359.6	5381.4
27.5°	9851.4	8159.5	6735.0	6112.8	5774.4	5583.4	5474.2	5376.0	5337.8	5255.9	5234.1
30°	10369.9	8268.6	6549.4	5921.8	5610.7	5397.8	5332.3	5310.5	5201.3	5114.0	5103.1
32.5°	10959.3	8339.6	6429.3	5725.3	5441.5	5277.7	5310.5	5206.8	5070.3	4993.9	4972.1
35°	11428.7	8366.9	6129.2	5501.5	5326.9	5223.2	5184.9	5163.1	4966.6	4895.7	4841.1
37.5°	12143.7	8306.8	5878.1	5343.2	5201.3	5163.1	5130.4	4983.0	4759.2	4655.5	4579.1
40°	12978.7	8290.5	5556.1	5119.5	5081.2	5124.9	5026.7	4797.4	4486.3	4371.7	4317.2
42.5°	13781.0	8405.1	5354.1	4999.4	4950.3	4966.6	4830.2	4486.3	4333.5	4268.0	4180.7
45°	15123.7	8645.2	5021.2	4813.8	4792.0	4781.1	4617.3	4257.1	4169.8	4087.9	4071.5
47.5°	16335.3	8486.9	4808.4	4622.8	4644.6	4584.6	4235.3	4120.7	4022.4	3940.6	3913.3
50°	16406.3	8110.4	4508.2	4475.4	4480.9	4377.2	4044.3	3967.9	3842.3	3787.7	3749.5
52.5°	16035.1	7493.6	4229.8	4240.7	4257.1	4087.9	3809.6	3755.0	3651.3	3574.9	3553.1
55°	14992.7	6533.0	3956.9	4000.6	4044.3	3722.2	3634.9	3498.5	3416.6	3307.5	3312.9
57.5°	13208.0	5261.4	3574.9	3645.8	3738.6	3383.9	3318.4	3149.2	3029.1	2941.8	2930.9
60°	8852.6	3744.1	3001.8	3029.1	3236.5	3094.6	3089.1	2919.9	2756.2	2679.8	2636.1
62.5°	5223.2	2859.9	2592.5	2565.2	2559.7	2641.6	2778.0	2718.0	2505.1	2357.8	2401.4
65°	2734.4	2472.4	2412.4	2319.6	2265.0	2243.2	2346.9	2374.2	2232.3	2074.0	2063.1
67.5°	2297.8	2297.8	2248.6	2215.9	2139.5	2046.7	1981.2	1893.9	1872.0	1828.4	1773.8
70°	2090.4	2144.9	2128.6	2052.1	1986.7	1883.0	1713.8	1571.9	1435.4	1386.3	1419.0
72.5°	1822.9	1877.5	1877.5	1839.3	1752.0	1593.7	1430.0	1266.2	1151.6	1064.3	1053.4
75°	1402.7	1430.0	1495.4	1451.8	1337.2	1238.9	1069.7	900.5	791.4	709.5	693.1
77.5°	895.1	938.7	938.7	933.3	851.4	758.6	649.5	529.4	447.5	387.5	371.1
80°	594.9	622.2	644.0	622.2	567.6	496.7	414.8	332.9	272.9	223.8	212.9
82.5°	436.6	469.4	485.7	463.9	409.3	354.8	294.7	234.7	174.7	136.4	125.5
85°	169.2	174.7	196.5	234.7	229.2	223.8	180.1	131.0	98.2	71.0	65.5
87.5°	43.7	38.2	43.7	43.7	38.2	32.7	32.7	32.7	32.7	16.4	21.8
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)