

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: P531986

Luminaire Tested: **GALN-SA7B-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531986
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-SA7B-740-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA 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: 34827 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

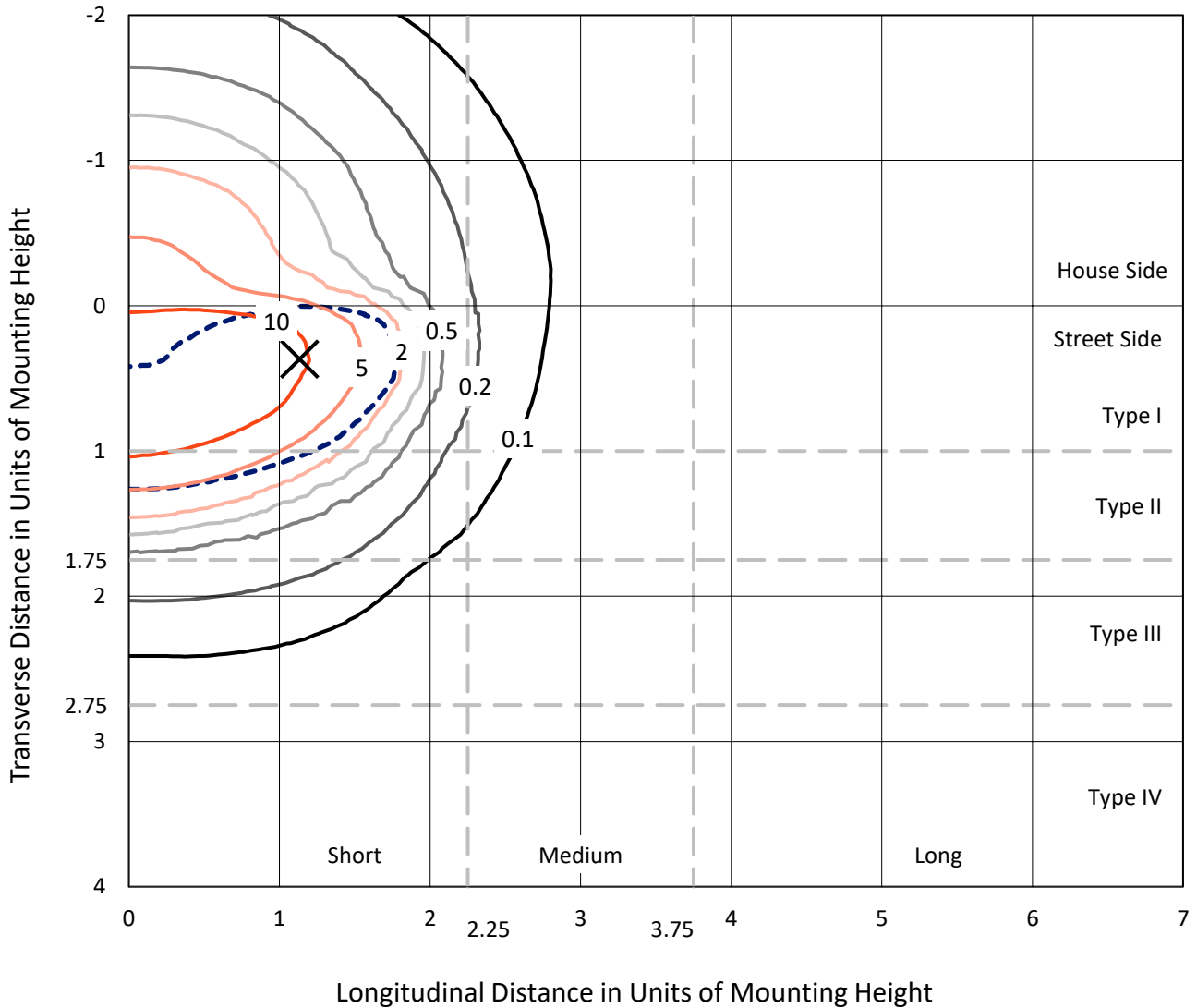
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

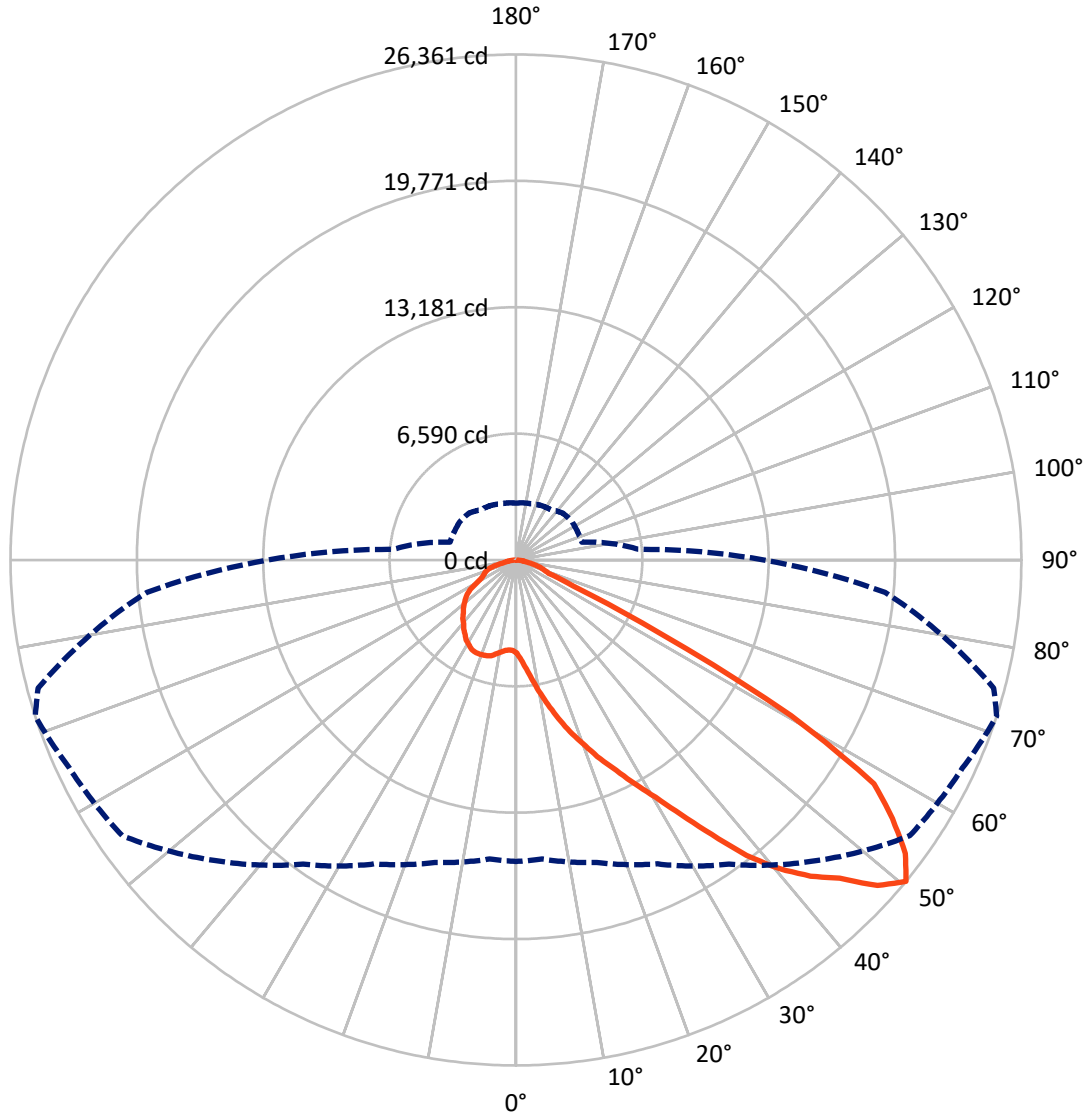
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 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	7979.1	0.0	7979.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	26847.9	0.0	26847.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	34827.0	0.0	34827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.3	1.6
10°-20°	2131.9	6.1
20°-30°	4133.6	11.9
30°-40°	6847.9	19.7
40°-50°	9581.6	27.5
50°-60°	8083.3	23.2
60°-70°	2463.8	7.1
70°-80°	864.4	2.5
80°-90°	150.3	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°	34827.0	100.0
0°-180°	34827.0	100.0

Coefficient of Utilization

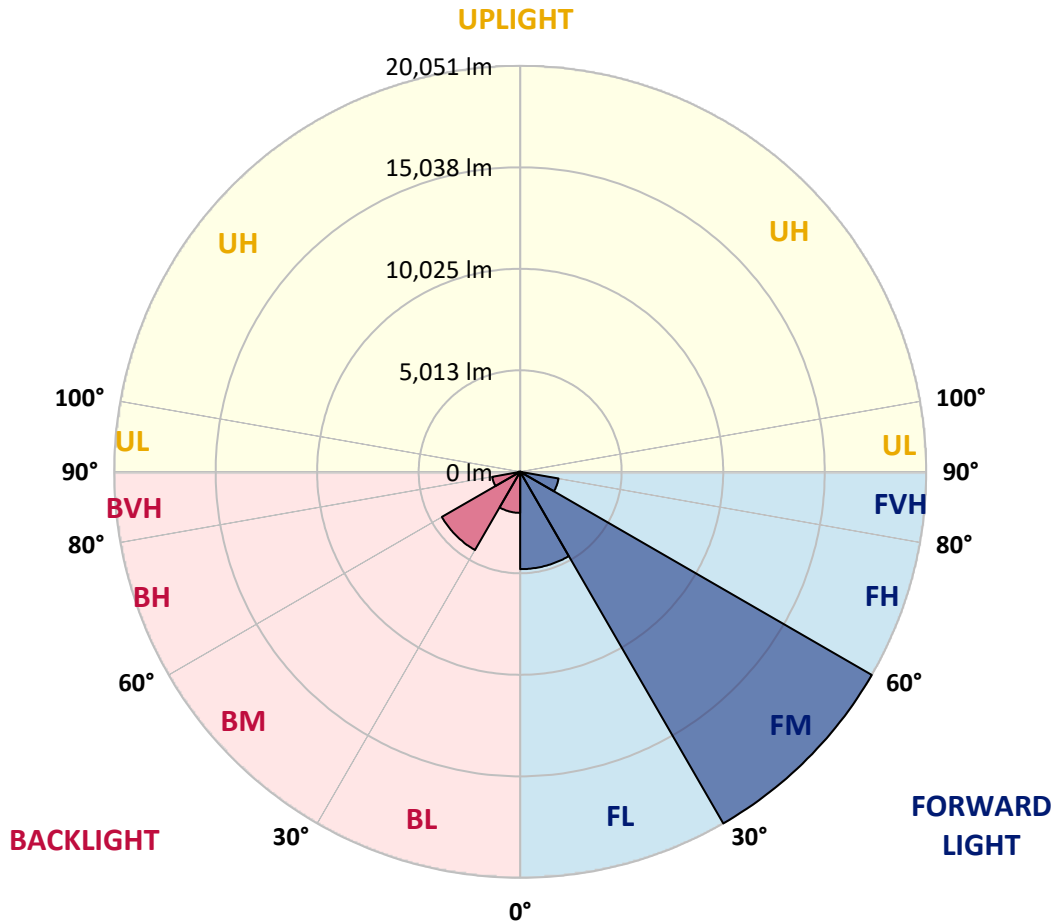


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4807.4	13.8			
FM (30°-60°)	20050.8	57.6			
FH (60°-80°)	1922.4	5.5			G2/5000
FVH (80°-90°)	67.3	0.2			G1/100
BL (0°-30°)	2028.3	5.8	B3/2500		
BM (30°-60°)	4462.0	12.8	B3/5000		
BH (60°-80°)	1405.8	4.0	B3/2500		G3/2500
BVH (80°-90°)	83.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4848.2	4848.2	4848.2	4848.2	4848.2	4848.2	4848.2	4848.2	4848.2	4848.2	4848.2
2.5°	6235.9	6197.1	6080.7	6042.0	5904.0	5654.1	5567.9	5313.6	5205.9	5106.8	4990.4
5°	7886.4	7705.4	7692.5	7472.7	7153.8	6968.5	6416.9	6046.3	5705.8	5533.4	5214.5
7.5°	8938.0	8942.3	8942.3	8761.3	8507.0	8037.3	7541.7	6873.7	6360.9	6106.6	5563.6
10°	9937.8	9851.6	9804.2	9786.9	9614.5	9157.7	8627.7	7800.2	7097.8	6800.4	5826.5
12.5°	10644.5	10571.3	10679.0	10623.0	10498.0	10200.6	9700.7	8757.0	7877.8	7477.0	6248.8
15°	10980.7	11032.4	11118.6	11273.7	11217.7	11105.6	10554.0	9739.5	8718.2	8265.7	6623.7
17.5°	11497.8	11355.6	11459.0	11653.0	11808.1	11756.4	11441.8	10450.6	9549.9	8994.0	7128.0
20°	11859.8	11777.9	11829.6	12053.7	12170.1	12463.1	12299.4	11381.5	10347.2	9761.1	7722.7
22.5°	12894.1	12773.4	12605.4	12639.8	12682.9	12889.8	12928.6	12402.8	11273.7	10653.1	8287.2
25°	14169.7	14057.7	13859.4	13656.9	13531.9	13493.1	13626.7	13204.4	12161.5	11519.4	8894.9
27.5°	15574.6	15385.0	15260.0	14842.0	14505.9	14454.1	14389.5	14161.1	13213.0	12519.2	9580.1
30°	16940.7	16789.9	16621.8	15953.9	15604.8	15548.8	15229.9	15294.5	14355.0	13583.6	10355.8
32.5°	17975.0	17988.0	17604.4	17100.2	16772.7	16475.3	16359.0	16544.3	15820.3	15199.7	11222.0
35°	18811.1	18849.9	18483.6	18026.7	17673.4	17880.2	17828.5	17914.7	17569.9	16811.5	12230.4
37.5°	19625.6	19431.6	19039.5	18819.7	18634.4	18974.8	19414.4	19487.7	19552.3	18660.2	13402.6
40°	19759.2	19776.4	19548.0	19703.1	19470.4	19983.3	21004.6	20909.8	21172.7	20392.7	14673.9
42.5°	19569.6	19608.3	19698.8	19918.6	20478.9	21095.1	22612.1	22224.2	22543.1	21849.3	15910.8
45°	19259.3	19099.8	19211.9	20047.9	21017.6	22388.0	24081.6	23780.0	23676.5	23094.7	17384.6
47.5°	17776.8	17940.6	18289.6	19319.6	20776.2	22612.1	25124.5	25055.6	25365.9	24956.5	18724.9
50°	15721.1	15656.5	16328.8	17488.1	19367.0	22172.5	25068.5	25693.4	26361.4	25792.5	19323.9
52.5°	11773.6	12118.4	12695.9	14135.2	16815.8	19776.4	23844.6	24887.5	25430.5	25309.8	18841.2
55°	7442.5	7546.0	7895.0	9605.9	12019.3	15872.0	20440.1	22857.7	23827.4	24279.9	18397.4
57.5°	3615.7	3421.8	3848.4	5223.1	6942.6	10674.7	15764.2	19910.0	22017.4	22836.2	17432.0
60°	1887.6	1960.8	2128.9	2620.2	3589.8	5542.0	9825.7	13269.0	16488.2	17746.6	13213.0
62.5°	1564.4	1590.2	1702.3	1947.9	2387.5	3189.0	5016.3	6468.6	8407.9	9541.3	7515.8
65°	1327.3	1340.3	1460.9	1624.7	1904.8	2245.3	2581.4	2702.1	3270.9	3357.1	2671.9
67.5°	1107.5	1120.5	1249.8	1404.9	1585.9	1676.4	1762.6	1754.0	1818.6	1792.8	1788.5
70°	853.3	866.2	999.8	1163.6	1254.1	1202.4	1469.5	1529.9	1555.7	1577.3	1611.8
72.5°	616.3	642.1	745.5	861.9	814.5	935.2	1211.0	1301.5	1336.0	1348.9	1392.0
75°	448.2	456.8	482.7	448.2	517.1	650.7	853.3	965.3	1008.4	1021.4	1086.0
77.5°	198.2	202.5	206.9	258.6	331.8	405.1	508.5	599.0	659.4	676.6	693.8
80°	103.4	107.7	133.6	176.7	237.0	297.4	370.6	422.3	461.1	465.4	482.7
82.5°	64.6	69.0	94.8	125.0	168.1	219.8	271.5	314.6	344.8	349.1	353.4
85°	30.2	38.8	56.0	77.6	112.0	142.2	146.5	125.0	133.6	137.9	129.3
87.5°	8.6	12.9	17.2	12.9	17.2	17.2	21.5	25.9	25.9	25.9	30.2
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°	4848.2	4848.2	4848.2	4848.2	4848.2	4848.2	4848.2	4848.2	4848.2	4848.2	4848.2
2.5°	4925.8	4887.0	4736.2	4680.1	4533.6	4559.5	4481.9	4477.6	4460.4	4456.0	4451.7
5°	5046.5	4925.8	4744.8	4606.9	4525.0	4516.4	4460.4	4460.4	4477.6	4490.5	4460.4
7.5°	5244.7	5106.8	4800.8	4671.5	4598.3	4585.3	4546.5	4516.4	4555.2	4542.2	4507.8
10°	5473.1	5231.8	4908.5	4796.5	4675.8	4645.7	4645.7	4658.6	4594.0	4615.5	4581.0
12.5°	5727.4	5404.1	5046.5	4917.2	4775.0	4757.7	4749.1	4654.3	4688.8	4671.5	4585.3
15°	6050.6	5602.4	5223.1	5003.4	4882.7	4805.1	4693.1	4675.8	4654.3	4611.2	4572.4
17.5°	6399.6	5817.9	5305.0	5029.2	4848.2	4792.2	4706.0	4615.5	4550.9	4559.5	4529.3
20°	6697.0	6016.1	5335.2	5055.1	4822.4	4714.6	4581.0	4525.0	4456.0	4451.7	4447.4
22.5°	7050.4	6283.3	5378.3	4986.1	4744.8	4632.7	4542.2	4443.1	4395.7	4335.4	4365.5
25°	7472.7	6386.7	5386.9	4947.3	4688.8	4490.5	4443.1	4335.4	4318.1	4232.0	4249.2
27.5°	7778.7	6442.7	5318.0	4826.7	4559.5	4408.6	4322.5	4244.9	4214.7	4150.1	4132.8
30°	8188.1	6528.9	5171.4	4675.8	4430.2	4262.1	4210.4	4193.2	4107.0	4038.0	4029.4
32.5°	8653.5	6585.0	5076.6	4520.7	4296.6	4167.3	4193.2	4111.3	4003.5	3943.2	3926.0
35°	9024.1	6606.5	4839.6	4344.0	4206.1	4124.2	4094.0	4076.8	3921.7	3865.6	3822.5
37.5°	9588.7	6559.1	4641.4	4219.0	4107.0	4076.8	4051.0	3934.6	3757.9	3676.0	3615.7
40°	10248.0	6546.2	4387.1	4042.3	4012.2	4046.6	3969.1	3788.1	3542.4	3451.9	3408.8
42.5°	10881.6	6636.7	4227.6	3947.5	3908.7	3921.7	3813.9	3542.4	3421.8	3370.0	3301.1
45°	11941.7	6826.3	3964.8	3801.0	3783.8	3775.1	3645.9	3361.4	3292.5	3227.8	3214.9
47.5°	12898.4	6701.3	3796.7	3650.2	3667.4	3620.0	3344.2	3253.7	3176.1	3111.5	3089.9
50°	12954.4	6404.0	3559.7	3533.8	3538.1	3456.2	3193.4	3133.0	3033.9	2990.8	2960.6
52.5°	12661.4	5917.0	3339.9	3348.5	3361.4	3227.8	3008.0	2965.0	2883.1	2822.7	2805.5
55°	11838.3	5158.5	3124.4	3158.9	3193.4	2939.1	2870.1	2762.4	2697.8	2611.6	2615.9
57.5°	10429.1	4154.4	2822.7	2878.8	2952.0	2671.9	2620.2	2486.6	2391.8	2322.8	2314.2
60°	6990.0	2956.3	2370.2	2391.8	2555.5	2443.5	2439.2	2305.6	2176.3	2116.0	2081.5
62.5°	4124.2	2258.2	2047.0	2025.5	2021.2	2085.8	2193.5	2146.1	1978.1	1861.7	1896.2
65°	2159.1	1952.2	1904.8	1831.5	1788.5	1771.2	1853.1	1874.6	1762.6	1637.6	1629.0
67.5°	1814.3	1814.3	1775.5	1749.7	1689.3	1616.1	1564.4	1495.4	1478.2	1443.7	1400.6
70°	1650.5	1693.6	1680.7	1620.4	1568.7	1486.8	1353.2	1241.1	1133.4	1094.6	1120.5
72.5°	1439.4	1482.5	1482.5	1452.3	1383.4	1258.4	1129.1	999.8	909.3	840.4	831.7
75°	1107.5	1129.1	1180.8	1146.3	1055.8	978.3	844.7	711.1	624.9	560.2	547.3
77.5°	706.8	741.2	741.2	736.9	672.3	599.0	512.8	418.0	353.4	306.0	293.0
80°	469.7	491.3	508.5	491.3	448.2	392.2	327.5	262.9	215.5	176.7	168.1
82.5°	344.8	370.6	383.5	366.3	323.2	280.1	232.7	185.3	137.9	107.7	99.1
85°	133.6	137.9	155.1	185.3	181.0	176.7	142.2	103.4	77.6	56.0	51.7
87.5°	34.5	30.2	34.5	34.5	30.2	25.9	25.9	25.9	25.9	12.9	17.2
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)