

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: P534251

Luminaire Tested: **GALN-SA9D-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35670 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

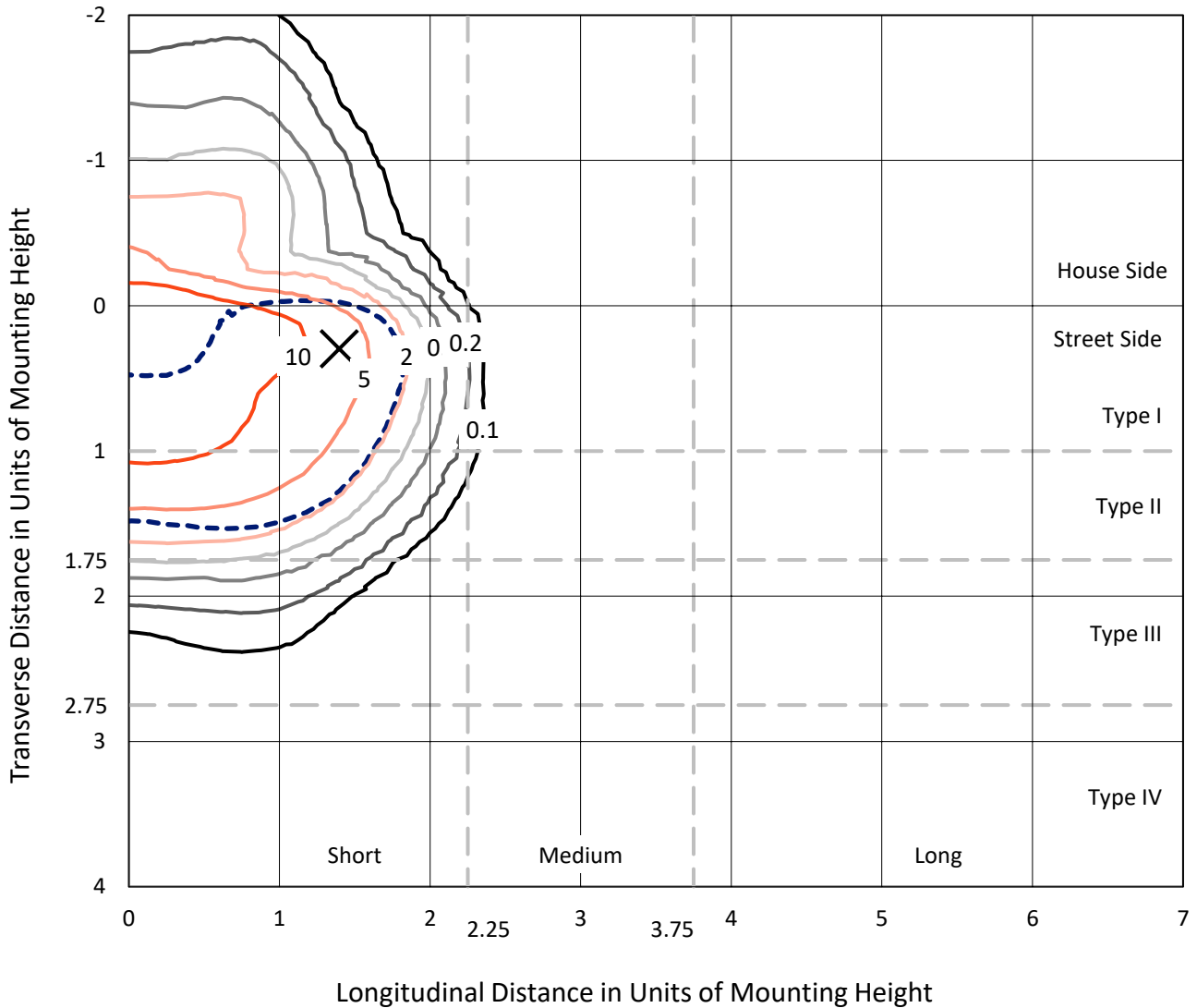
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

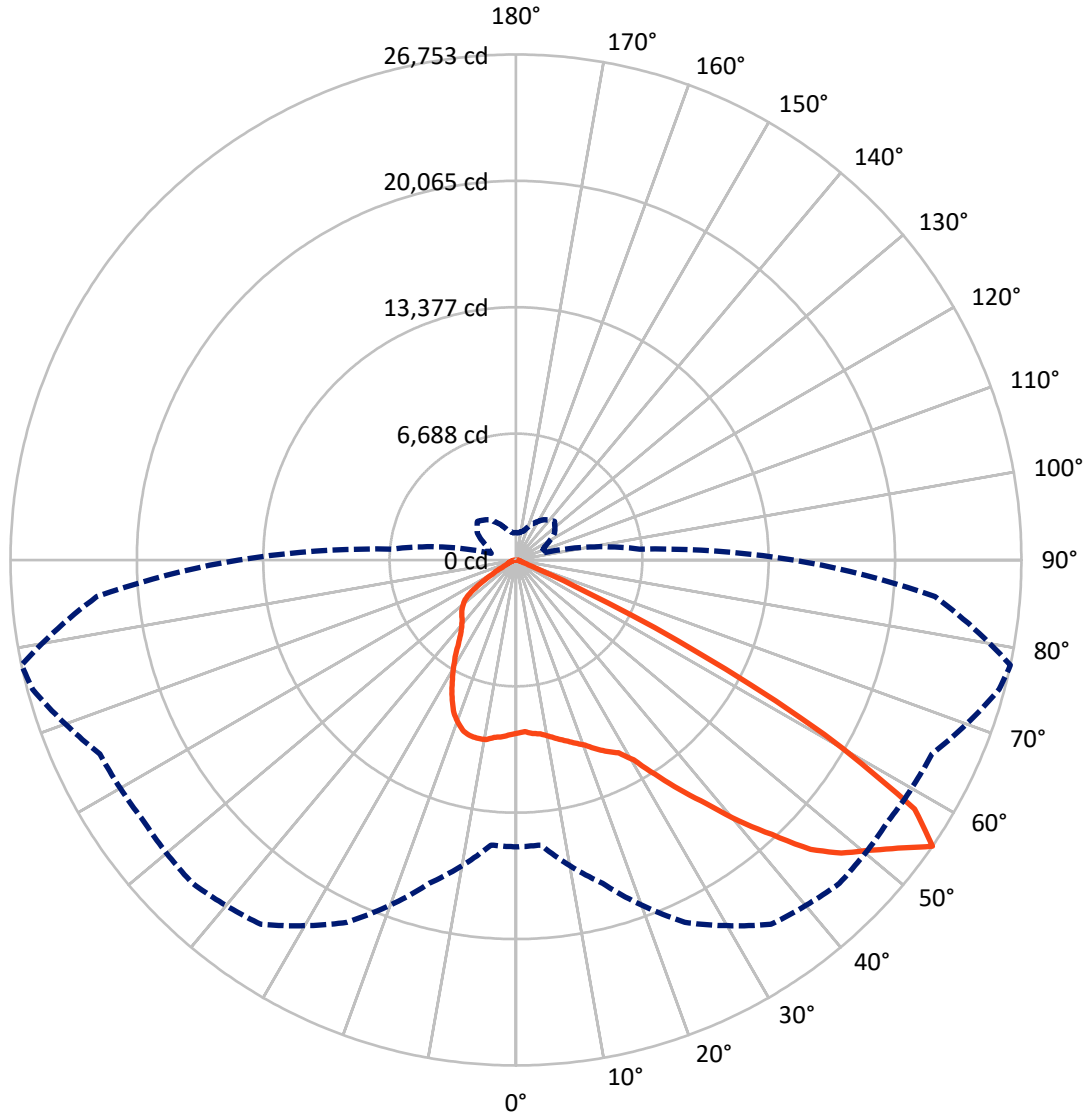
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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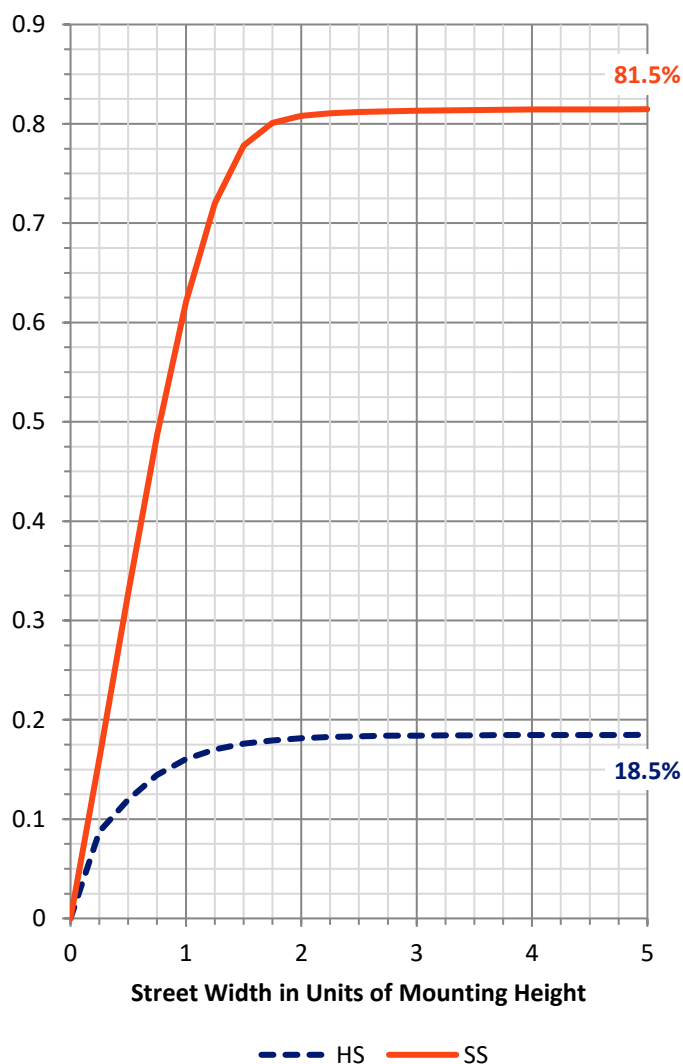
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6625.3	0.0	6625.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	29044.7	0.0	29044.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	35670.0	0.0	35670.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	817.7	2.3
10°-20°	2164.2	6.1
20°-30°	3793.4	10.6
30°-40°	6254.8	17.5
40°-50°	9101.6	25.5
50°-60°	10313.0	28.9
60°-70°	2948.7	8.3
70°-80°	229.0	0.6
80°-90°	47.6	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°	35670.0	100.0
0°-180°	35670.0	100.0

Coefficient of Utilization



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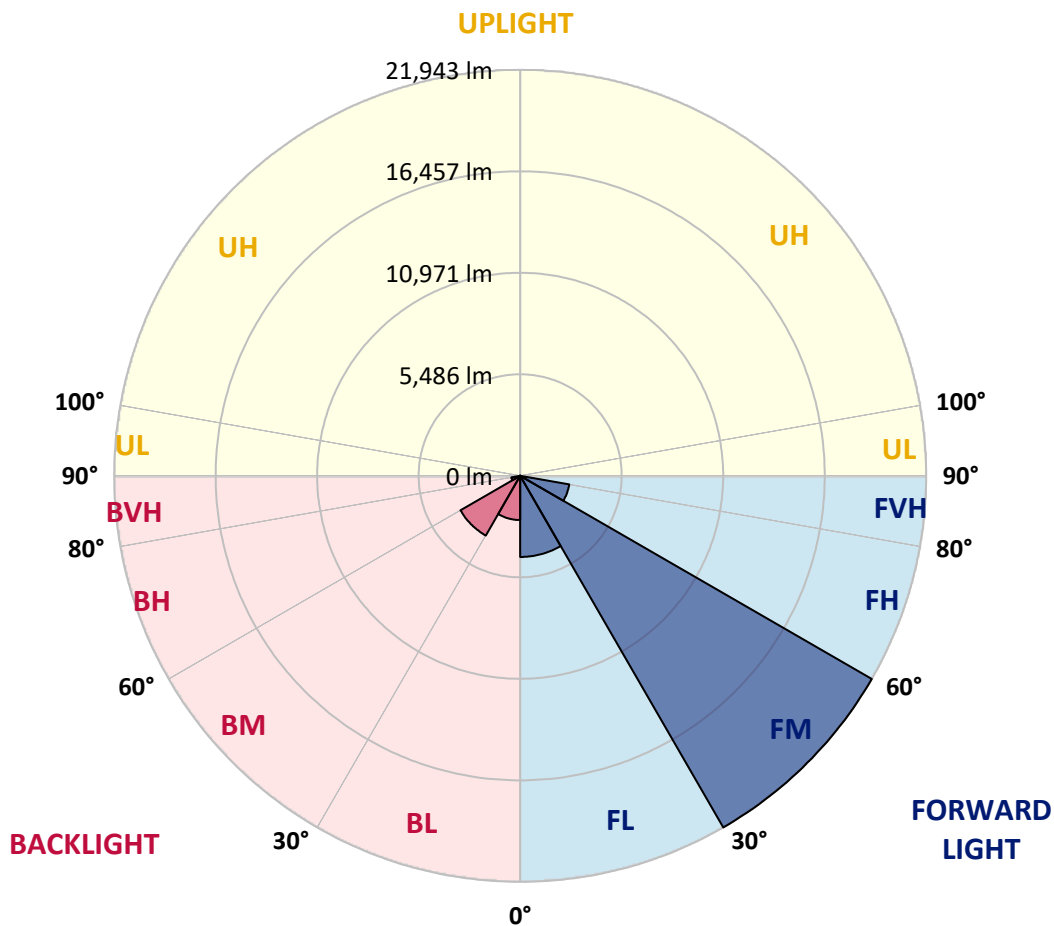
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4384.9	12.3			
FM (30°-60°)	21942.6	61.5			
FH (60°-80°)	2694.0	7.6			G2/5000
FVH (80°-90°)	23.2	0.1			G1/100
BL (0°-30°)	2390.4	6.7	B3/2500		
BM (30°-60°)	3726.8	10.4	B3/5000		
BH (60°-80°)	483.6	1.4	B1/500		G1/500
BVH (80°-90°)	24.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	9170.8	9170.8	9170.8	9170.8	9170.8	9170.8	9170.8	9170.8	9170.8	9170.8	9170.8
2.5°	8622.3	8705.2	8718.0	8820.0	8813.6	8985.8	9036.9	9043.2	9158.0	9100.6	9247.3
5°	8380.0	8335.3	8316.2	8494.8	8545.8	8698.8	8826.4	8902.9	9138.9	9221.8	9374.9
7.5°	8163.1	8163.1	8175.9	8335.3	8316.2	8513.9	8647.8	8883.8	9228.2	9298.3	9483.3
10°	7952.7	7876.2	7971.8	8137.6	8277.9	8367.2	8647.8	8871.0	9272.8	9476.9	9732.0
12.5°	7844.3	7882.5	7895.3	8016.5	8169.5	8437.4	8590.4	8960.3	9591.7	9712.9	9987.1
15°	8526.7	8450.1	8265.2	8156.8	8284.3	8411.9	8794.5	9170.8	9757.5	9929.7	10235.8
17.5°	9317.5	9253.7	9100.6	8807.3	8520.3	8756.2	9056.0	9400.4	9936.1	10191.2	10644.0
20°	10350.6	10248.6	10095.5	9521.5	9272.8	9017.7	9336.6	9744.7	10229.4	10459.0	10924.6
22.5°	11581.5	11581.5	11237.1	10541.9	10025.4	9783.0	9916.9	10152.9	10554.7	10867.2	11326.4
25°	12863.3	12825.1	12512.6	11791.9	10918.2	10631.2	10784.3	10950.1	11058.5	11230.7	11536.8
27.5°	14330.1	14106.9	13711.5	12914.3	12142.7	11587.8	11753.6	11607.0	11473.0	11562.3	12002.4
30°	15325.0	15465.3	14961.5	14196.2	13469.2	12850.6	12882.5	12754.9	12142.7	12270.2	12531.7
32.5°	16358.2	16447.5	16166.8	15745.9	15018.9	14298.3	14036.8	13928.4	13469.2	13526.6	13271.5
35°	17219.1	17391.3	17142.6	16957.6	16747.2	16166.8	15446.2	15797.0	15057.2	14916.9	14253.6
37.5°	18009.9	17958.9	18252.3	18060.9	18016.3	17608.1	16817.3	16887.5	16390.1	16358.2	15592.9
40°	18717.8	18730.6	19132.4	19221.6	19043.1	18316.0	17168.1	17722.9	18124.7	18163.0	17180.9
42.5°	19304.6	19476.7	19821.1	20541.8	20273.9	19062.2	17531.6	18137.5	19629.8	19865.8	18685.9
45°	19814.7	20165.5	20592.8	21236.9	21083.9	20120.9	18437.2	18992.1	21236.9	21855.5	20101.7
47.5°	19846.6	20305.8	20771.4	21728.0	21919.3	20688.5	19374.7	20344.1	22512.4	23182.0	21134.9
50°	19719.1	19961.4	20892.5	21932.1	22365.7	21613.2	20688.5	21479.3	23749.6	24170.5	21657.8
52.5°	18207.6	18392.6	20261.2	22123.4	23169.3	22659.1	22429.5	23060.9	25012.4	25324.9	22148.9
55°	15178.3	15146.5	17716.6	21160.4	23539.2	24208.8	24068.5	24291.7	26472.8	26753.4	22270.1
57.5°	10382.5	10962.8	13182.2	17620.9	21275.2	23845.3	23992.0	23622.1	24770.0	24878.4	19413.0
60°	5599.4	5841.7	7627.4	11760.0	16198.7	19432.1	19814.7	19145.1	19055.8	18749.7	13858.2
62.5°	2225.7	2346.9	3360.9	5822.6	8826.4	11811.0	12633.7	12359.5	11772.8	10969.2	7174.6
65°	1058.7	1135.2	1670.9	2723.2	3915.8	4923.4	5746.1	6001.2	4426.0	3985.9	2366.0
67.5°	720.7	778.0	1218.1	1556.1	1396.7	1460.4	1900.5	1766.6	1039.5	886.5	656.9
70°	548.5	586.7	975.8	1058.7	625.0	440.0	491.1	459.2	427.3	433.7	427.3
72.5°	389.0	420.9	714.3	625.0	274.2	204.1	261.5	312.5	312.5	312.5	306.1
75°	236.0	267.9	414.5	242.3	108.4	108.4	165.8	210.5	223.2	229.6	216.8
77.5°	121.2	153.1	140.3	70.2	70.2	82.9	121.2	146.7	159.4	159.4	153.1
80°	25.5	25.5	25.5	38.3	70.2	89.3	121.2	133.9	153.1	153.1	140.3
82.5°	0.0	6.4	19.1	38.3	63.8	82.9	114.8	133.9	153.1	159.4	146.7
85°	0.0	6.4	12.8	25.5	44.6	51.0	44.6	38.3	38.3	38.3	38.3
87.5°	0.0	0.0	6.4	6.4	6.4	12.8	12.8	12.8	12.8	12.8	12.8
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°	9170.8	9170.8	9170.8	9170.8	9170.8	9170.8	9170.8	9170.8	9170.8	9170.8	9170.8
2.5°	9260.1	9279.2	9247.3	9240.9	9215.4	9291.9	9107.0	9062.4	9177.2	9068.7	9094.2
5°	9381.2	9425.9	9368.5	9272.8	9132.5	8915.7	8730.7	8488.4	8373.6	8290.7	8277.9
7.5°	9470.5	9502.4	9445.0	9138.9	8718.0	8169.5	7761.4	7461.6	7225.7	7155.5	7040.7
10°	9834.0	9840.4	9553.4	8877.4	8054.7	7334.1	6709.1	6249.9	6013.9	5867.3	5803.5
12.5°	10076.4	10063.6	9483.3	8360.8	7263.9	6307.3	5593.0	5038.2	4821.4	4751.2	4706.6
15°	10382.5	10312.3	9317.5	7831.5	6243.5	5210.4	4566.3	4183.6	4164.5	4119.8	4164.5
17.5°	10624.8	10427.1	9075.1	6868.5	5267.8	4292.0	3871.1	3896.6	3947.6	3992.3	3998.7
20°	11020.2	10612.1	8520.3	6026.7	4362.2	3679.8	3673.4	3788.2	3915.8	3966.8	4017.8
22.5°	11320.0	10688.6	7927.2	5127.5	3622.4	3431.1	3539.5	3711.7	3807.3	3858.4	3934.9
25°	11428.4	10478.2	7136.4	4228.3	3265.3	3316.3	3482.1	3596.9	3718.1	3775.5	3743.6
27.5°	11536.8	10369.7	6192.5	3482.1	3073.9	3239.7	3380.1	3494.8	3533.1	3609.6	3660.7
30°	11798.3	9993.5	5344.3	3010.2	2978.3	3188.7	3290.8	3329.0	3431.1	3475.7	3475.7
32.5°	12008.7	9846.8	4445.1	2786.9	2965.5	3214.2	3227.0	3227.0	3239.7	3207.9	3195.1
35°	12442.4	9343.0	3641.5	2653.0	2959.1	3220.6	3252.5	3144.1	2850.7	2735.9	2704.0
37.5°	12978.1	9017.7	3048.4	2621.1	3003.8	3297.1	3348.2	2940.0	2557.4	2372.4	2340.5
40°	13628.6	8788.1	2659.4	2608.4	3105.8	3475.7	3322.7	2780.6	2283.1	2015.3	2002.5
42.5°	14387.5	8577.7	2397.9	2602.0	3233.4	3660.7	3297.1	2646.6	2002.5	1824.0	1849.5
45°	14993.4	8462.9	2219.4	2557.4	3278.0	3769.1	3316.3	2410.7	1887.7	1772.9	1785.7
47.5°	15465.3	8220.5	2072.7	2480.8	3271.6	3807.3	3144.1	2315.0	1830.3	1862.2	1894.1
50°	15478.1	7895.3	1887.7	2315.0	3176.0	3737.2	2946.4	2225.7	1817.6	1951.5	2015.3
52.5°	15305.9	7436.1	1690.0	2079.0	2952.8	3494.8	2767.8	2187.5	1760.2	1747.4	1824.0
55°	14693.7	6575.2	1358.4	1683.6	2493.6	2882.6	2608.4	2117.3	1588.0	1441.3	1454.1
57.5°	11874.8	4712.9	1001.3	1205.3	1766.6	2110.9	2353.3	2085.4	1428.5	1224.5	1230.8
60°	7353.2	2672.2	733.4	822.7	1090.5	1281.9	1906.9	1938.7	1275.5	1033.1	1020.4
62.5°	3775.5	1320.1	567.6	580.3	669.6	752.5	1307.4	1626.3	1154.3	982.1	982.1
65°	1262.7	650.5	497.4	446.4	446.4	465.6	790.8	1128.8	975.8	822.7	822.7
67.5°	542.1	484.7	433.7	389.0	357.1	338.0	446.4	656.9	727.0	625.0	599.5
70°	420.9	408.2	376.3	325.3	280.6	255.1	261.5	338.0	414.5	401.8	389.0
72.5°	312.5	312.5	299.7	255.1	216.8	184.9	172.2	178.6	197.7	204.1	210.5
75°	216.8	223.2	223.2	197.7	159.4	133.9	114.8	95.7	76.5	63.8	57.4
77.5°	146.7	153.1	165.8	146.7	121.2	89.3	70.2	51.0	31.9	12.8	12.8
80°	127.5	146.7	159.4	146.7	127.5	95.7	70.2	38.3	19.1	0.0	0.0
82.5°	133.9	146.7	165.8	140.3	121.2	89.3	70.2	44.6	19.1	6.4	0.0
85°	31.9	31.9	38.3	44.6	57.4	63.8	51.0	31.9	19.1	6.4	0.0
87.5°	12.8	12.8	12.8	12.8	12.8	6.4	6.4	6.4	6.4	0.0	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)