

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: P530583

Luminaire Tested: **GALN-SA5D-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23135 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

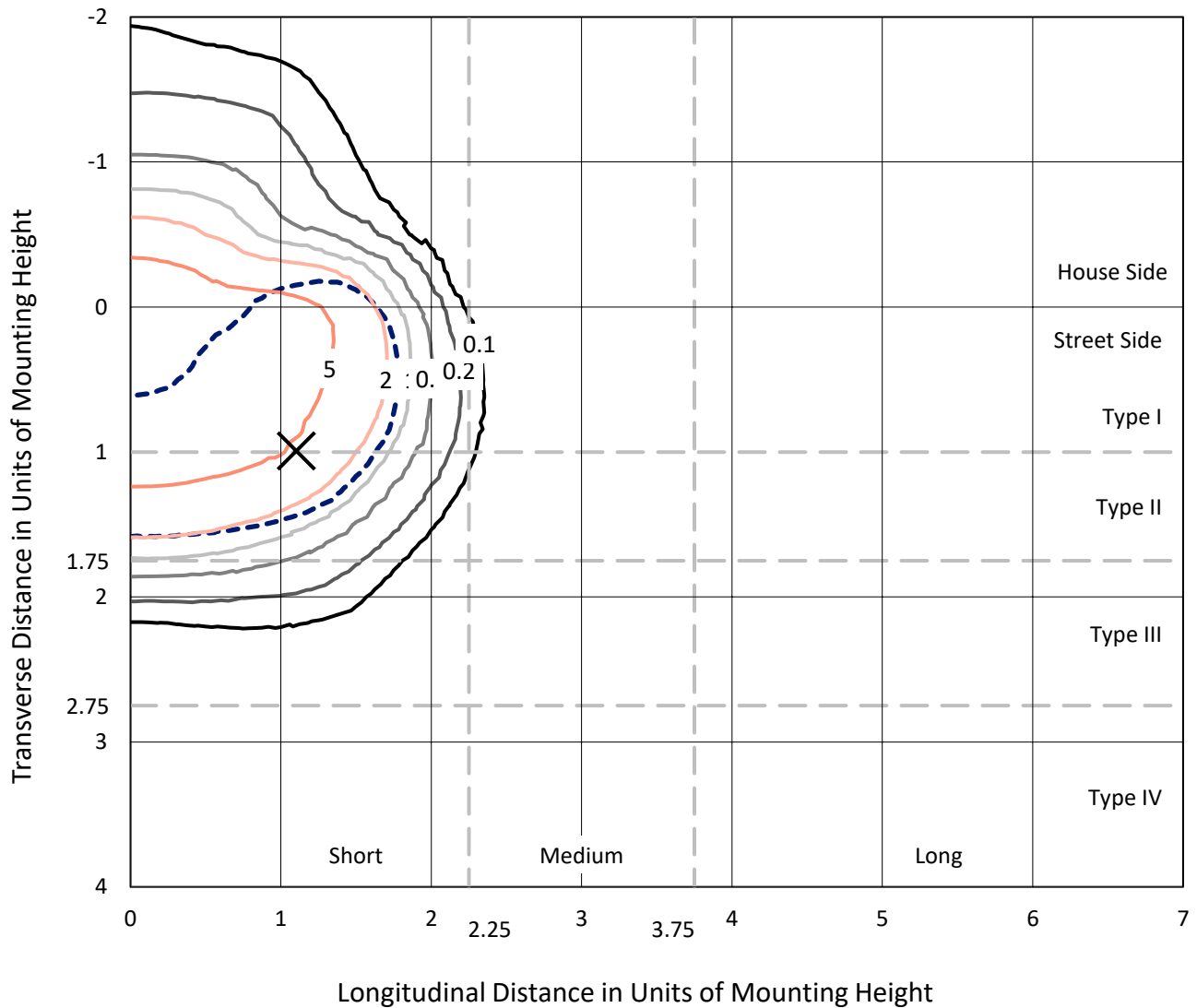
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

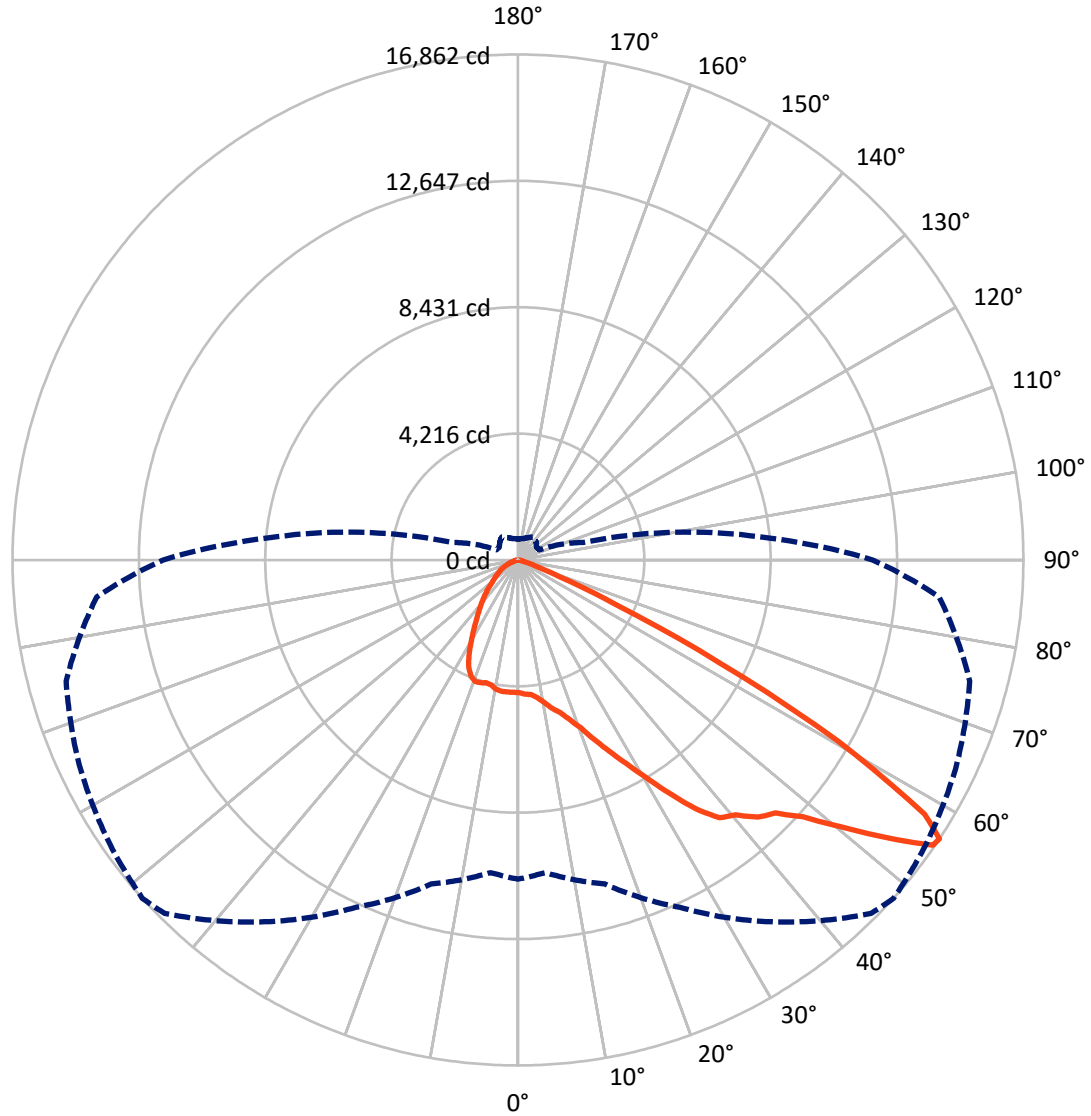
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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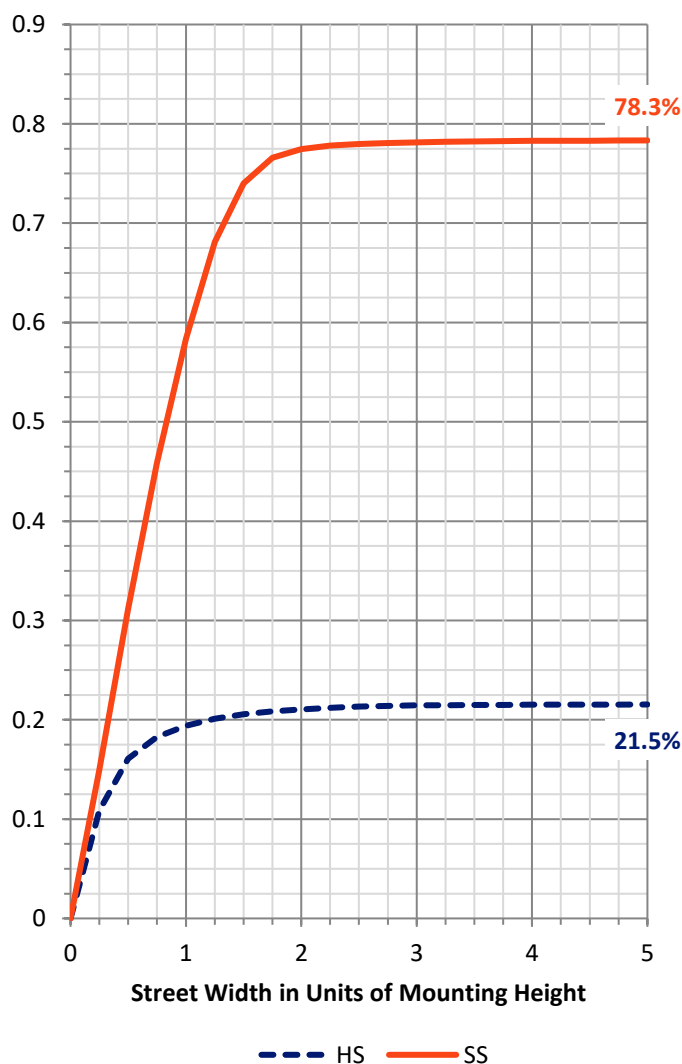
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5031.4	0.0	5031.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	18103.6	0.0	18103.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	23135.0	0.0	23135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.4	1.9
10°-20°	1375.6	5.9
20°-30°	2495.1	10.8
30°-40°	3919.3	16.9
40°-50°	5717.5	24.7
50°-60°	6888.5	29.8
60°-70°	2016.9	8.7
70°-80°	255.9	1.1
80°-90°	35.9	0.2
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°	23135.0	100.0
0°-180°	23135.0	100.0

Coefficient of Utilization

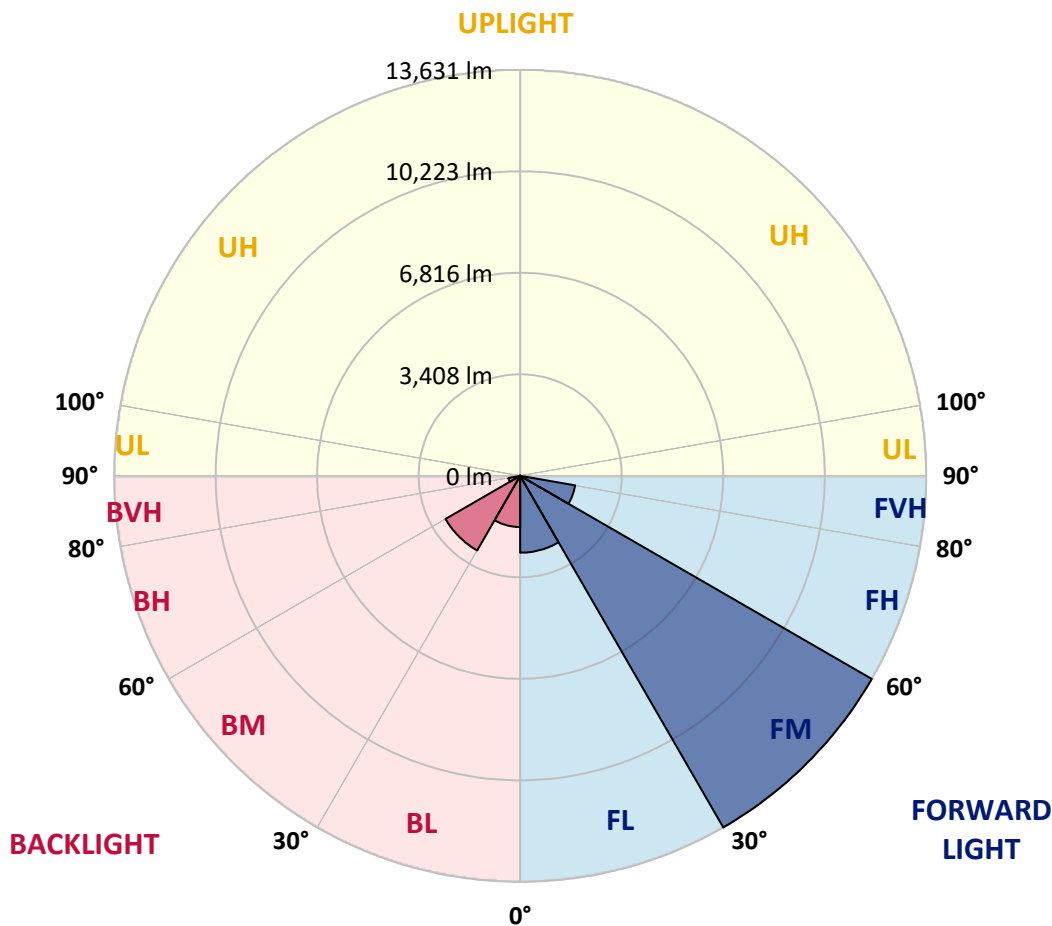


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2581.4	11.2			
FM (30°-60°)	13631.2	58.9			
FH (60°-80°)	1873.0	8.1			G2/5000
FVH (80°-90°)	18.0	0.1			G1/100
BL (0°-30°)	1719.7	7.4	B3/2500		
BM (30°-60°)	2894.1	12.5	B3/5000		
BH (60°-80°)	399.8	1.7	B1/500		G1/500
BVH (80°-90°)	17.9	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°	48°	55°	65°	75°	85°
0°	4418.8	4418.8	4418.8	4418.8	4418.8	4418.8	4418.8	4418.8	4418.8	4418.8	4418.8
2.5°	4498.8	4477.8	4477.8	4444.1	4482.0	4465.1	4477.8	4435.6	4477.8	4414.6	4465.1
5°	4519.9	4524.1	4507.3	4528.3	4528.3	4553.6	4511.5	4549.4	4570.4	4524.1	4503.0
7.5°	4629.4	4637.8	4633.6	4616.8	4650.5	4646.3	4642.1	4612.6	4621.0	4604.1	4578.9
10°	4844.2	4840.0	4861.1	4819.0	4793.7	4823.2	4831.6	4785.3	4751.6	4738.9	4658.9
12.5°	5156.0	5105.4	5075.9	5033.8	5046.4	5004.3	5080.1	5000.1	4983.3	4907.4	4827.4
15°	5408.7	5400.3	5404.5	5337.1	5261.3	5278.1	5278.1	5236.0	5210.7	5118.1	5004.3
17.5°	5926.8	5749.9	5787.8	5703.6	5640.4	5636.2	5598.3	5606.7	5539.3	5345.5	5172.8
20°	6331.2	6255.4	6196.4	6053.2	5956.3	5985.8	5969.0	5926.8	5905.8	5653.0	5408.7
22.5°	6693.5	6718.8	6621.9	6584.0	6449.2	6461.8	6495.5	6457.6	6297.5	6036.4	5674.1
25°	7203.2	7173.7	7043.1	6996.8	6870.4	6916.7	7047.3	7017.8	6916.7	6445.0	5880.5
27.5°	7805.6	7704.5	7729.7	7519.1	7397.0	7527.5	7683.4	7830.8	7544.4	6925.2	6124.8
30°	8231.0	8125.7	8117.3	8108.8	8079.4	8231.0	8412.1	8546.9	8315.3	7405.4	6529.2
32.5°	8441.6	8466.9	8538.5	8513.2	8770.2	9081.9	9271.5	9465.2	9174.6	8188.9	7064.2
35°	9001.9	8841.8	9001.9	9018.7	9284.1	9945.4	10185.6	10648.9	10577.3	9296.7	7717.1
37.5°	9330.4	9317.8	9338.9	9498.9	9755.9	10573.1	10914.3	11272.4	11137.6	9962.3	8530.1
40°	9873.8	9907.5	9903.3	10025.5	10307.7	11044.9	11183.9	11474.5	11487.2	10884.8	9726.4
42.5°	10745.8	10611.0	10522.5	10648.9	11044.9	11453.5	11731.5	11672.5	12089.6	12005.3	11263.9
45°	11529.3	11609.3	11478.8	11689.4	11832.6	12051.6	12043.2	12169.6	12700.3	13100.5	12422.3
47.5°	12262.3	12312.8	12376.0	12519.2	12830.9	12864.6	12793.0	12738.3	13471.2	13884.0	13319.6
50°	12700.3	12746.7	13041.6	13298.5	13879.8	13955.6	13997.8	13858.8	14355.8	14402.2	14166.3
52.5°	12582.4	12633.0	13045.8	13892.5	14819.2	15514.2	15387.9	15152.0	15122.5	15303.6	14949.8
55°	11537.7	11491.4	12060.1	13378.5	15114.0	16782.2	16799.0	16550.5	16074.5	15952.3	14831.8
56°	10648.9	10467.8	11192.3	12784.6	14734.9	16672.6	16862.2	16596.8	16150.3	15602.7	14103.1
57.5°	8723.9	8896.6	9616.9	10935.4	13424.9	15884.9	15994.4	15931.3	15594.3	14676.0	12409.7
60°	4810.5	5113.8	5749.9	7363.3	9557.9	12190.7	12279.1	12793.0	12856.2	11238.7	8538.5
62.5°	2043.0	2009.3	2670.7	3858.5	5442.4	7359.0	7523.3	8049.9	8146.8	6478.7	4284.0
65°	829.8	876.2	1209.0	1941.9	2877.1	3353.1	3584.7	3757.5	4077.6	2674.9	1579.6
67.5°	547.6	543.4	711.9	1107.9	1550.2	1495.4	1495.4	1579.6	1461.7	1091.0	682.4
70°	391.8	404.4	509.7	766.7	964.6	716.1	686.6	657.1	745.6	720.3	551.8
72.5°	257.0	273.8	341.2	459.2	501.3	391.8	391.8	471.8	615.0	581.3	450.7
75°	168.5	172.7	210.6	265.4	248.5	202.2	223.3	315.9	446.5	429.7	320.1
77.5°	113.7	117.9	143.2	172.7	139.0	113.7	122.2	160.1	219.0	219.0	168.5
80°	42.1	46.3	59.0	54.8	63.2	80.0	88.5	109.5	130.6	130.6	113.7
82.5°	0.0	4.2	12.6	29.5	46.3	63.2	71.6	84.2	96.9	109.5	105.3
85°	0.0	4.2	12.6	21.1	33.7	37.9	42.1	29.5	25.3	25.3	21.1
87.5°	0.0	0.0	4.2	4.2	4.2	4.2	4.2	4.2	8.4	4.2	4.2
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°	4418.8	4418.8	4418.8	4418.8	4418.8	4418.8	4418.8	4418.8	4418.8	4418.8	4418.8
2.5°	4418.8	4414.6	4414.6	4401.9	4427.2	4414.6	4423.0	4418.8	4364.0	4406.2	4376.7
5°	4465.1	4494.6	4448.3	4439.9	4406.2	4418.8	4418.8	4376.7	4414.6	4410.4	4401.9
7.5°	4583.1	4532.5	4482.0	4431.4	4423.0	4410.4	4364.0	4347.2	4376.7	4343.0	4393.5
10°	4633.6	4642.1	4566.2	4498.8	4435.6	4347.2	4284.0	4246.1	4199.8	4250.3	4279.8
12.5°	4865.3	4781.1	4650.5	4545.2	4330.3	4241.9	4178.7	4161.8	4241.9	4258.7	4229.2
15°	4945.3	4932.7	4764.2	4528.3	4305.1	4199.8	4212.4	4178.7	4187.1	4145.0	4153.4
17.5°	5109.6	4966.4	4768.4	4473.6	4300.8	4275.6	4199.8	4065.0	3989.1	3955.4	3984.9
20°	5290.8	5151.8	4865.3	4494.6	4338.8	4271.4	4022.8	3858.5	3702.7	3618.4	3622.7
22.5°	5450.8	5278.1	4823.2	4503.0	4372.5	4094.4	3795.4	3471.0	3277.2	3146.7	3150.9
25°	5644.6	5400.3	4840.0	4519.9	4284.0	3812.2	3382.5	3066.6	2834.9	2746.5	2776.0
27.5°	5754.1	5476.1	4932.7	4557.8	4052.3	3412.0	2948.7	2653.8	2519.0	2476.9	2472.7
30°	6082.7	5644.6	5046.4	4482.0	3664.8	2982.4	2552.7	2371.6	2241.0	2203.1	2211.5
32.5°	6571.3	5952.1	5193.9	4284.0	3268.8	2599.0	2295.8	2161.0	2038.8	1967.2	1958.8
35°	6979.9	6478.7	5349.7	3976.5	2809.7	2304.2	2114.6	1946.1	1760.8	1680.7	1659.7
37.5°	7759.2	7072.6	5316.0	3513.1	2371.6	2085.1	1920.8	1714.4	1554.4	1444.8	1432.2
40°	8795.5	7767.6	5151.8	2948.7	2047.2	1891.4	1714.4	1516.5	1318.5	1225.8	1217.4
42.5°	10055.0	8618.5	4852.7	2375.8	1722.9	1697.6	1537.5	1310.1	1133.1	1065.7	1069.9
45°	11078.6	9347.3	4549.4	1908.2	1482.8	1508.0	1369.0	1154.2	1032.0	977.3	977.3
47.5°	11988.5	9840.1	4220.8	1575.4	1259.5	1318.5	1196.3	1069.9	964.6	922.5	914.1
50°	12864.6	10341.4	3892.2	1276.4	1074.2	1133.1	1120.5	1019.4	935.2	884.6	888.8
52.5°	13412.2	10421.4	3475.2	1044.7	939.4	1006.8	1048.9	956.2	863.5	834.1	825.6
55°	12742.5	9389.4	2695.9	859.3	796.1	884.6	964.6	859.3	787.7	737.2	733.0
56°	11841.0	8395.3	2253.6	791.9	754.0	850.9	935.2	821.4	741.4	711.9	690.8
57.5°	10025.5	6870.4	1663.9	703.5	699.3	791.9	888.8	783.5	690.8	665.6	665.6
60°	6251.2	3867.0	1006.8	589.7	606.6	703.5	800.4	699.3	615.0	615.0	627.6
62.5°	2847.6	1609.1	610.8	501.3	522.3	606.6	711.9	631.9	585.5	631.9	640.3
65°	968.8	695.0	442.3	400.2	412.8	501.3	610.8	640.3	636.1	665.6	682.4
67.5°	543.4	446.5	370.7	332.8	324.4	370.7	501.3	640.3	615.0	602.4	610.8
70°	459.2	379.1	328.6	294.9	282.2	299.1	387.5	484.4	433.9	421.2	412.8
72.5°	370.7	315.9	286.4	265.4	227.5	193.8	176.9	185.3	206.4	219.0	240.1
75°	261.2	240.1	240.1	214.8	164.3	122.2	96.9	80.0	54.8	37.9	42.1
77.5°	147.4	147.4	151.6	130.6	105.3	80.0	59.0	42.1	21.1	8.4	4.2
80°	101.1	109.5	117.9	105.3	88.5	71.6	50.5	29.5	12.6	0.0	0.0
82.5°	101.1	113.7	122.2	105.3	88.5	67.4	50.5	29.5	12.6	4.2	0.0
85°	21.1	25.3	29.5	33.7	50.5	50.5	37.9	25.3	12.6	4.2	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	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)