

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: P530505

Luminaire Tested: **GALN-SA5D-727-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530505
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-727-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 19348 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

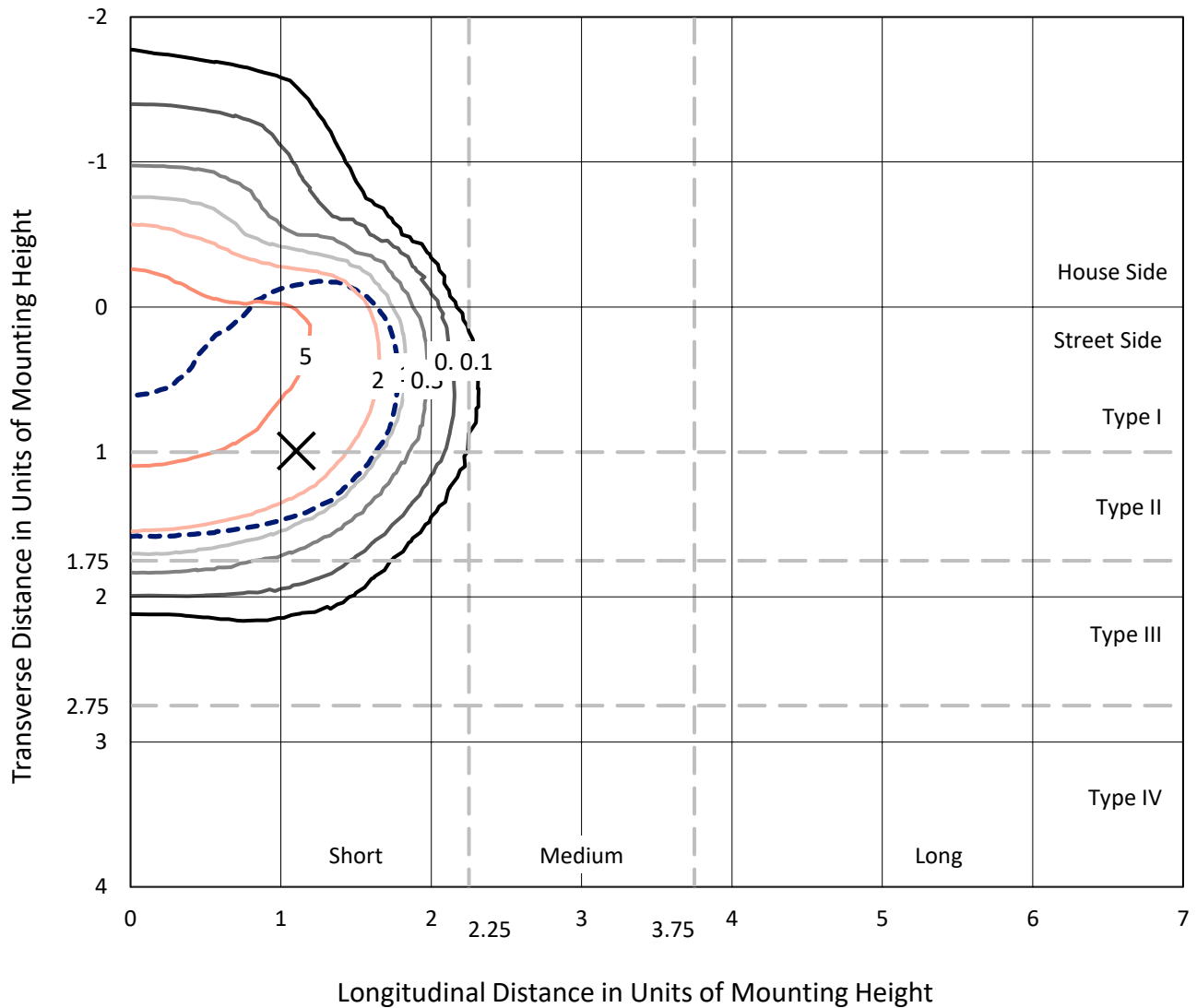
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

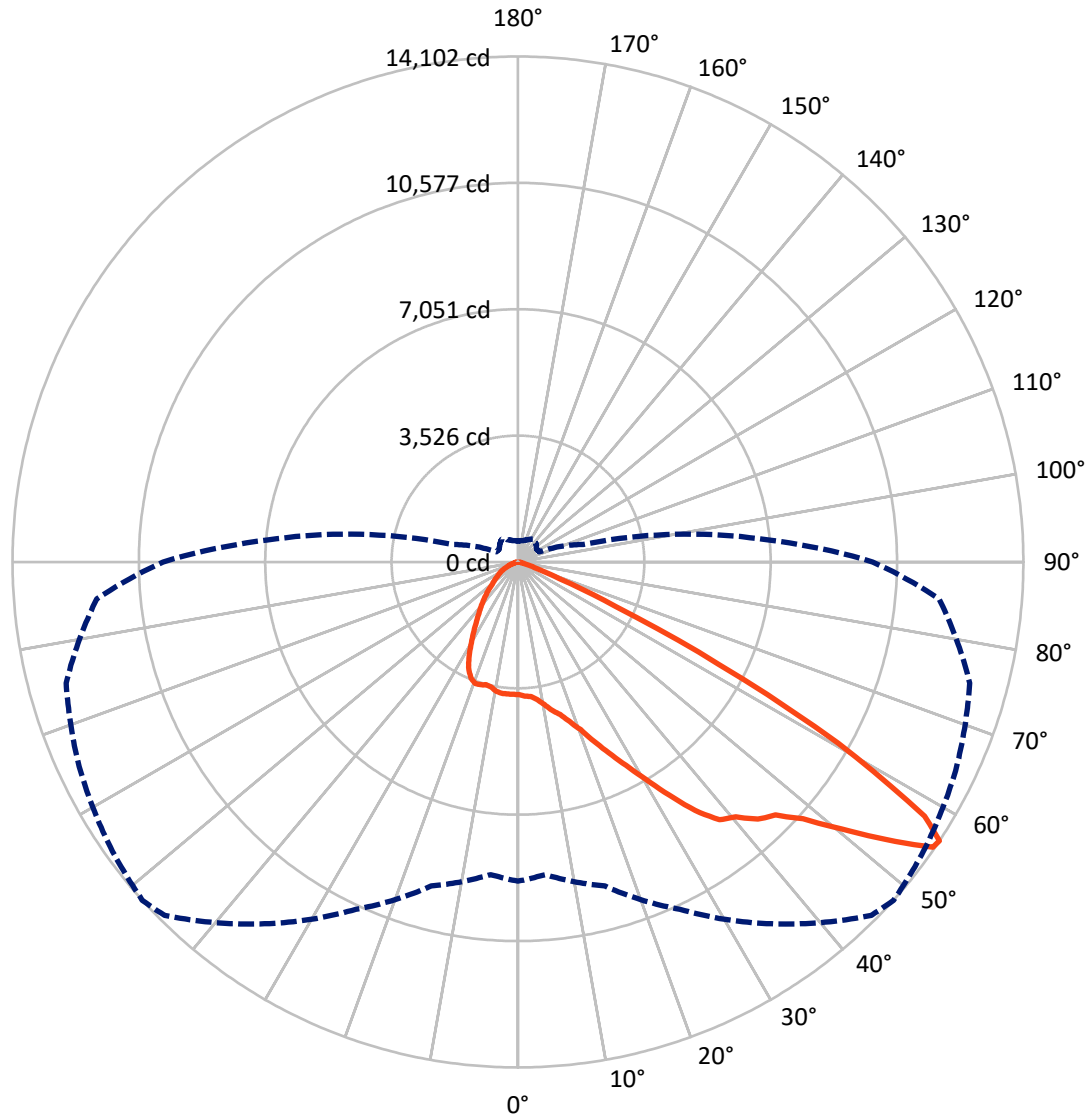
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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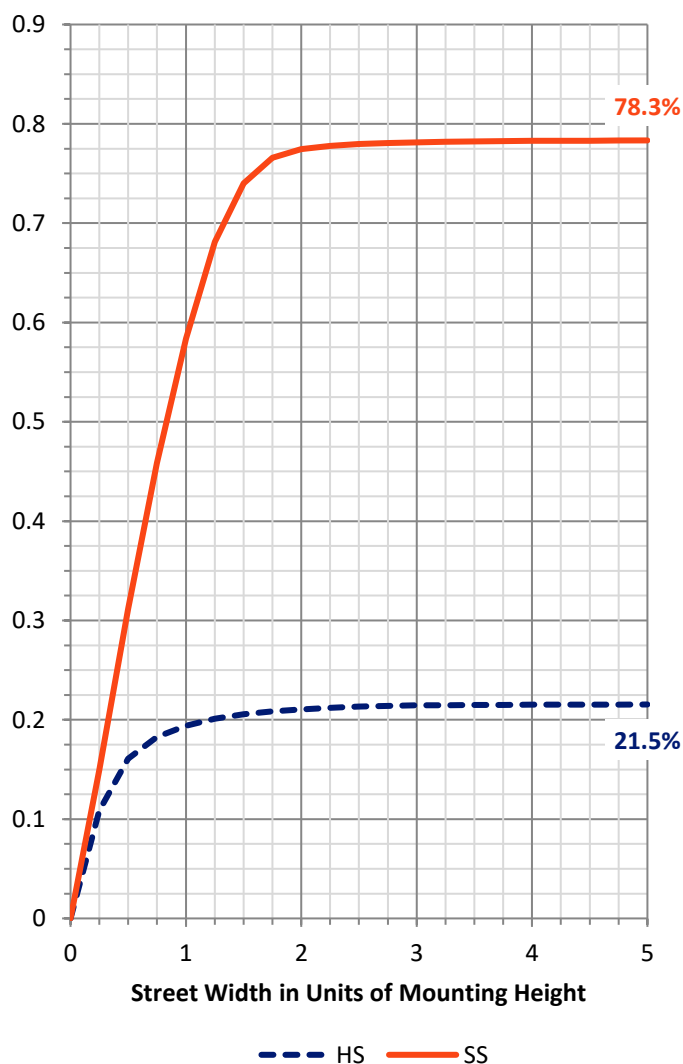
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4207.8	0.0	4207.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	15140.2	0.0	15140.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	19348.0	0.0	19348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.0	1.9
10°-20°	1150.4	5.9
20°-30°	2086.7	10.8
30°-40°	3277.7	16.9
40°-50°	4781.6	24.7
50°-60°	5760.9	29.8
60°-70°	1686.7	8.7
70°-80°	214.0	1.1
80°-90°	30.0	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°	19348.0	100.0
0°-180°	19348.0	100.0

Coefficient of Utilization

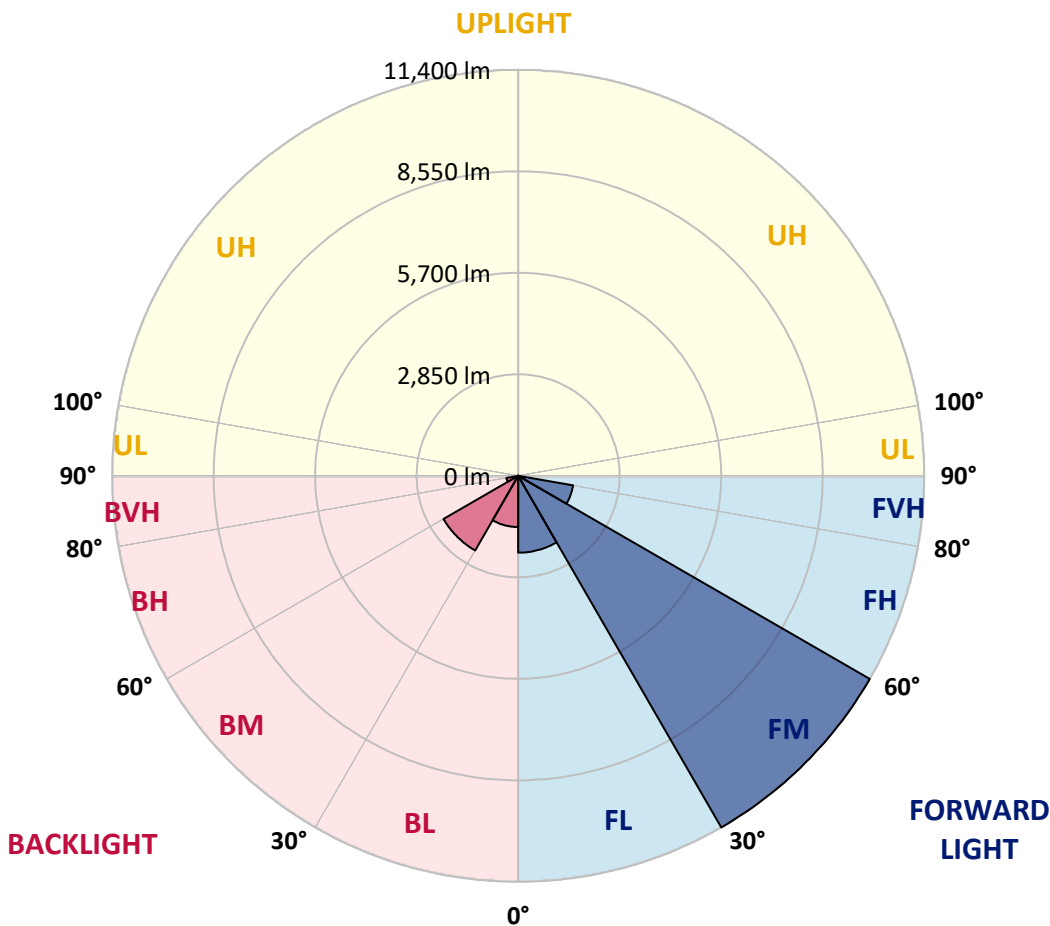


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2158.8	11.2			
FM (30°-60°)	11399.9	58.9			
FH (60°-80°)	1566.4	8.1			G1/1800
FVH (80°-90°)	15.1	0.1			G1/100
BL (0°-30°)	1438.2	7.4	B3/2500		
BM (30°-60°)	2420.3	12.5	B2/2500		
BH (60°-80°)	334.3	1.7	B1/500		G1/500
BVH (80°-90°)	14.9	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3695.5	3695.5	3695.5	3695.5	3695.5	3695.5	3695.5	3695.5	3695.5	3695.5	3695.5
2.5°	3762.4	3744.8	3744.8	3716.6	3748.3	3734.2	3744.8	3709.6	3744.8	3692.0	3734.2
5°	3780.0	3783.5	3769.5	3787.1	3787.1	3808.2	3773.0	3804.7	3822.3	3783.5	3765.9
7.5°	3871.6	3878.7	3875.1	3861.1	3889.2	3885.7	3882.2	3857.5	3864.6	3850.5	3829.3
10°	4051.3	4047.8	4065.4	4030.1	4009.0	4033.7	4040.7	4002.0	3973.8	3963.2	3896.3
12.5°	4312.0	4269.7	4245.0	4209.8	4220.4	4185.2	4248.6	4181.6	4167.5	4104.1	4037.2
15°	4523.3	4516.3	4519.8	4463.5	4400.0	4414.1	4414.1	4378.9	4357.8	4280.3	4185.2
17.5°	4956.7	4808.7	4840.4	4769.9	4717.1	4713.6	4681.9	4688.9	4632.6	4470.5	4326.1
20°	5294.9	5231.4	5182.1	5062.3	4981.3	5006.0	4991.9	4956.7	4939.0	4727.7	4523.3
22.5°	5597.8	5619.0	5537.9	5506.2	5393.5	5404.1	5432.2	5400.5	5266.7	5048.3	4745.3
25°	6024.1	5999.4	5890.2	5851.5	5745.8	5784.5	5893.7	5869.1	5784.5	5390.0	4917.9
27.5°	6527.9	6443.3	6464.4	6288.3	6186.1	6295.3	6425.7	6549.0	6309.4	5791.6	5122.2
30°	6883.7	6795.6	6788.5	6781.5	6756.8	6883.7	7035.1	7147.9	6954.1	6193.2	5460.4
32.5°	7059.8	7080.9	7140.8	7119.7	7334.6	7595.3	7753.8	7915.9	7672.8	6848.4	5907.8
35°	7528.3	7394.5	7528.3	7542.4	7764.4	8317.5	8518.3	8905.8	8845.9	7774.9	6453.9
37.5°	7803.1	7792.6	7810.2	7944.0	8158.9	8842.4	9127.7	9427.2	9314.4	8331.6	7133.8
40°	8257.6	8285.8	8282.2	8384.4	8620.4	9236.9	9353.2	9596.3	9606.8	9103.1	8134.3
42.5°	8986.8	8874.1	8800.1	8905.8	9236.9	9578.6	9811.2	9761.8	10110.6	10040.1	9420.1
45°	9642.1	9709.0	9599.8	9775.9	9895.7	10078.9	10071.8	10177.5	10621.4	10956.1	10388.9
47.5°	10255.0	10297.3	10350.2	10469.9	10730.6	10758.8	10698.9	10653.1	11266.1	11611.3	11139.3
50°	10621.4	10660.2	10906.8	11121.7	11607.8	11671.2	11706.5	11590.2	12005.9	12044.6	11847.4
52.5°	10522.8	10565.0	10910.3	11618.4	12393.4	12974.7	12869.0	12671.7	12647.1	12798.5	12502.6
55°	9649.1	9610.4	10085.9	11188.6	12640.0	14035.1	14049.2	13841.3	13443.2	13341.1	12404.0
56°	8905.8	8754.3	9360.2	10691.9	12323.0	13943.5	14102.0	13880.1	13506.6	13048.7	11794.5
57.5°	7295.8	7440.3	8042.7	9145.3	11227.3	13284.7	13376.3	13323.4	13041.6	12273.6	10378.3
60°	4023.1	4276.7	4808.7	6158.0	7993.4	10195.1	10269.1	10698.9	10751.8	9399.0	7140.8
62.5°	1708.6	1680.4	2233.5	3226.9	4551.5	6154.4	6291.8	6732.2	6813.2	5418.2	3582.7
65°	694.0	732.8	1011.1	1624.0	2406.1	2804.2	2998.0	3142.4	3410.1	2237.0	1321.1
67.5°	458.0	454.4	595.4	926.5	1296.4	1250.6	1250.6	1321.1	1222.4	912.4	570.7
70°	327.6	338.2	426.3	641.2	806.7	598.9	574.2	549.6	623.5	602.4	461.5
72.5°	214.9	229.0	285.4	384.0	419.2	327.6	327.6	394.6	514.3	486.2	376.9
75°	140.9	144.4	176.1	221.9	207.8	169.1	186.7	264.2	373.4	359.3	267.7
77.5°	95.1	98.6	119.8	144.4	116.3	95.1	102.2	133.9	183.2	183.2	140.9
80°	35.2	38.8	49.3	45.8	52.8	66.9	74.0	91.6	109.2	109.2	95.1
82.5°	0.0	3.5	10.6	24.7	38.8	52.8	59.9	70.5	81.0	91.6	88.1
85°	0.0	3.5	10.6	17.6	28.2	31.7	35.2	24.7	21.1	21.1	17.6
87.5°	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5	7.0	3.5	3.5
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°	3695.5	3695.5	3695.5	3695.5	3695.5	3695.5	3695.5	3695.5	3695.5	3695.5	3695.5
2.5°	3695.5	3692.0	3692.0	3681.4	3702.5	3692.0	3699.0	3695.5	3649.7	3684.9	3660.2
5°	3734.2	3758.9	3720.1	3713.1	3684.9	3695.5	3695.5	3660.2	3692.0	3688.4	3681.4
7.5°	3832.9	3790.6	3748.3	3706.0	3699.0	3688.4	3649.7	3635.6	3660.2	3632.1	3674.3
10°	3875.1	3882.2	3818.8	3762.4	3709.6	3635.6	3582.7	3551.0	3512.3	3554.6	3579.2
12.5°	4068.9	3998.4	3889.2	3801.2	3621.5	3547.5	3494.7	3480.6	3547.5	3561.6	3536.9
15°	4135.8	4125.3	3984.4	3787.1	3600.4	3512.3	3522.9	3494.7	3501.7	3466.5	3473.5
17.5°	4273.2	4153.4	3987.9	3741.3	3596.8	3575.7	3512.3	3399.6	3336.1	3308.0	3332.6
20°	4424.7	4308.5	4068.9	3758.9	3628.5	3572.2	3364.3	3226.9	3096.6	3026.1	3029.7
22.5°	4558.6	4414.1	4033.7	3765.9	3656.7	3424.2	3174.1	2902.8	2740.8	2631.6	2635.1
25°	4720.6	4516.3	4047.8	3780.0	3582.7	3188.2	2828.9	2564.6	2370.9	2296.9	2321.6
27.5°	4812.2	4579.7	4125.3	3811.7	3389.0	2853.5	2466.0	2219.4	2106.7	2071.4	2067.9
30°	5087.0	4720.6	4220.4	3748.3	3064.9	2494.2	2134.9	1983.4	1874.2	1842.5	1849.5
32.5°	5495.7	4977.8	4343.7	3582.7	2733.7	2173.6	1920.0	1807.2	1705.1	1645.2	1638.1
35°	5837.4	5418.2	4474.0	3325.6	2349.7	1927.0	1768.5	1627.6	1472.6	1405.6	1388.0
37.5°	6489.1	5914.9	4445.8	2938.1	1983.4	1743.8	1606.4	1433.8	1299.9	1208.3	1197.8
40°	7355.7	6496.1	4308.5	2466.0	1712.1	1581.8	1433.8	1268.2	1102.7	1025.2	1018.1
42.5°	8409.1	7207.8	4058.3	1986.9	1440.8	1419.7	1285.8	1095.6	947.6	891.3	894.8
45°	9265.1	7817.2	3804.7	1595.9	1240.0	1261.2	1144.9	965.3	863.1	817.3	817.3
47.5°	10026.0	8229.4	3529.9	1317.5	1053.3	1102.7	1000.5	894.8	806.7	771.5	764.5
50°	10758.8	8648.6	3255.1	1067.4	898.3	947.6	937.1	852.5	782.1	739.8	743.3
52.5°	11216.8	8715.5	2906.4	873.7	785.6	842.0	877.2	799.7	722.2	697.5	690.5
55°	10656.6	7852.4	2254.6	718.7	665.8	739.8	806.7	718.7	658.8	616.5	613.0
56°	9902.7	7021.1	1884.7	662.3	630.6	711.6	782.1	687.0	620.0	595.4	577.7
57.5°	8384.4	5745.8	1391.5	588.3	584.8	662.3	743.3	655.3	577.7	556.6	556.6
60°	5227.9	3234.0	842.0	493.2	507.3	588.3	669.3	584.8	514.3	514.3	524.9
62.5°	2381.5	1345.7	510.8	419.2	436.8	507.3	595.4	528.4	489.7	528.4	535.5
65°	810.3	581.3	369.9	334.7	345.2	419.2	510.8	535.5	532.0	556.6	570.7
67.5°	454.4	373.4	310.0	278.3	271.3	310.0	419.2	535.5	514.3	503.8	510.8
70°	384.0	317.1	274.8	246.6	236.0	250.1	324.1	405.1	362.9	352.3	345.2
72.5°	310.0	264.2	239.6	221.9	190.2	162.1	148.0	155.0	172.6	183.2	200.8
75°	218.4	200.8	200.8	179.7	137.4	102.2	81.0	66.9	45.8	31.7	35.2
77.5°	123.3	123.3	126.8	109.2	88.1	66.9	49.3	35.2	17.6	7.0	3.5
80°	84.5	91.6	98.6	88.1	74.0	59.9	42.3	24.7	10.6	0.0	0.0
82.5°	84.5	95.1	102.2	88.1	74.0	56.4	42.3	24.7	10.6	3.5	0.0
85°	17.6	21.1	24.7	28.2	42.3	42.3	31.7	21.1	10.6	3.5	0.0
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	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)