

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: P532533

Luminaire Tested: **GALN-SA7D-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532533
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-SA7D-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 23654 lumens
Efficiency: N/A
Efficacy: 54.6 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

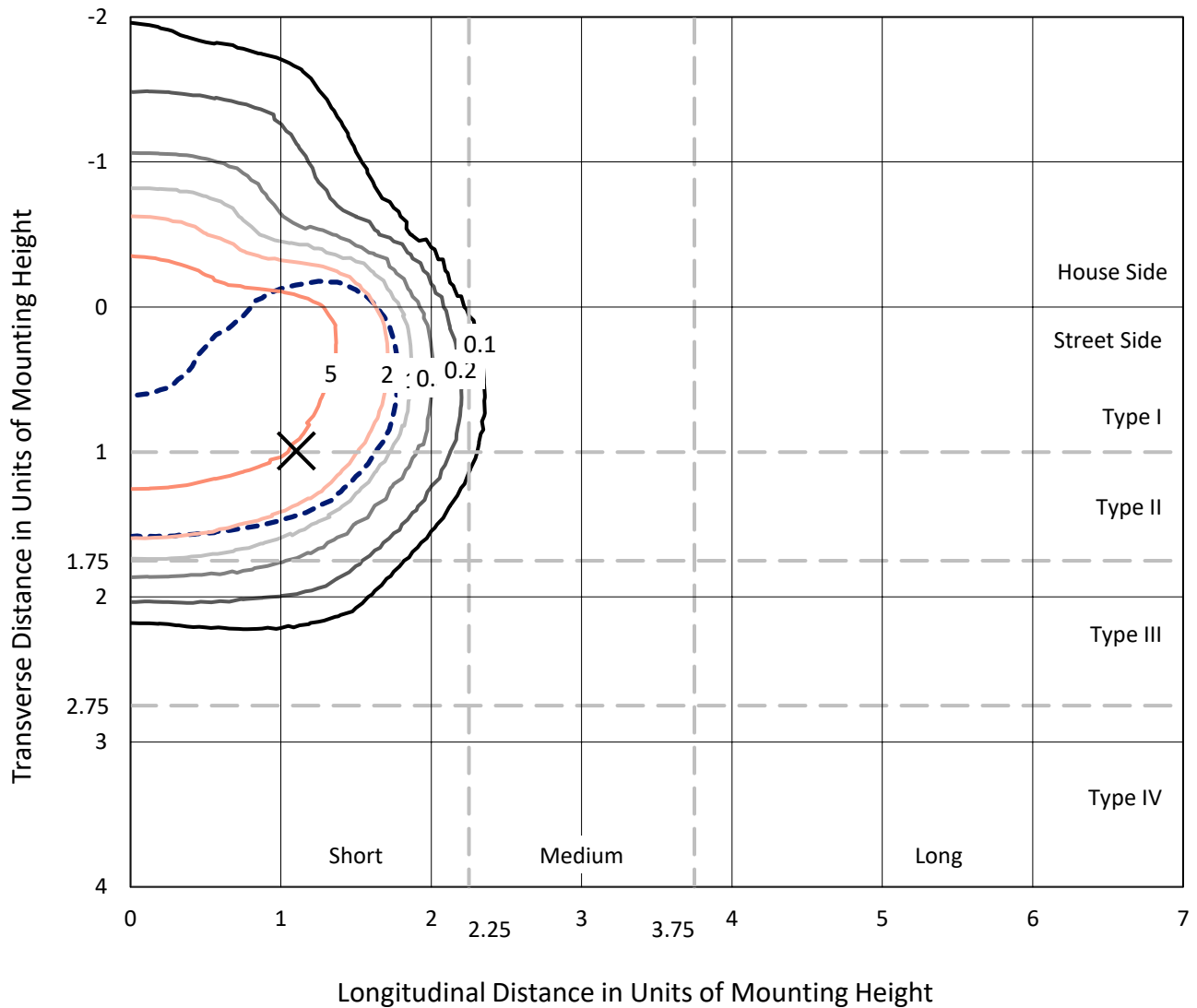
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

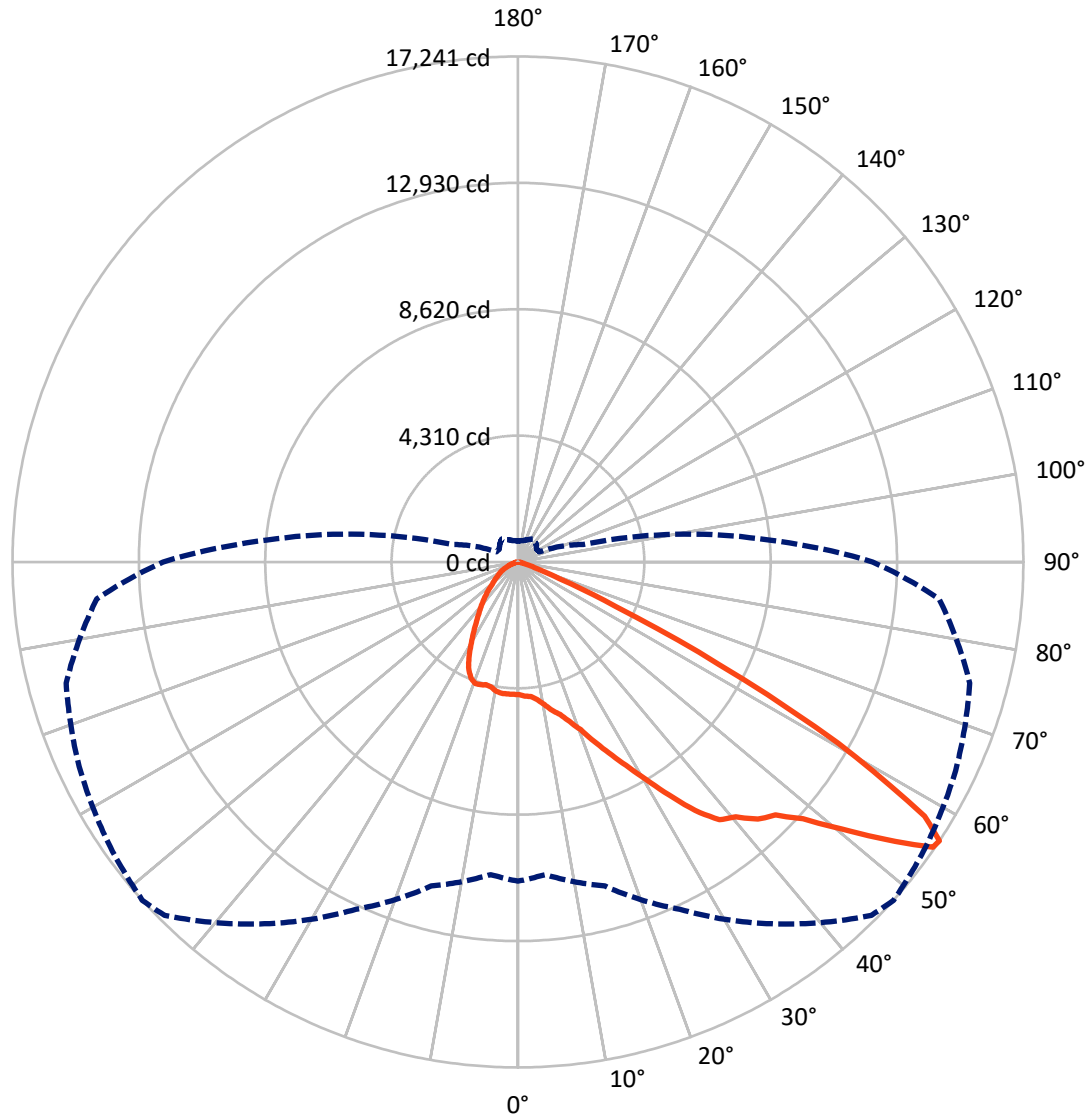
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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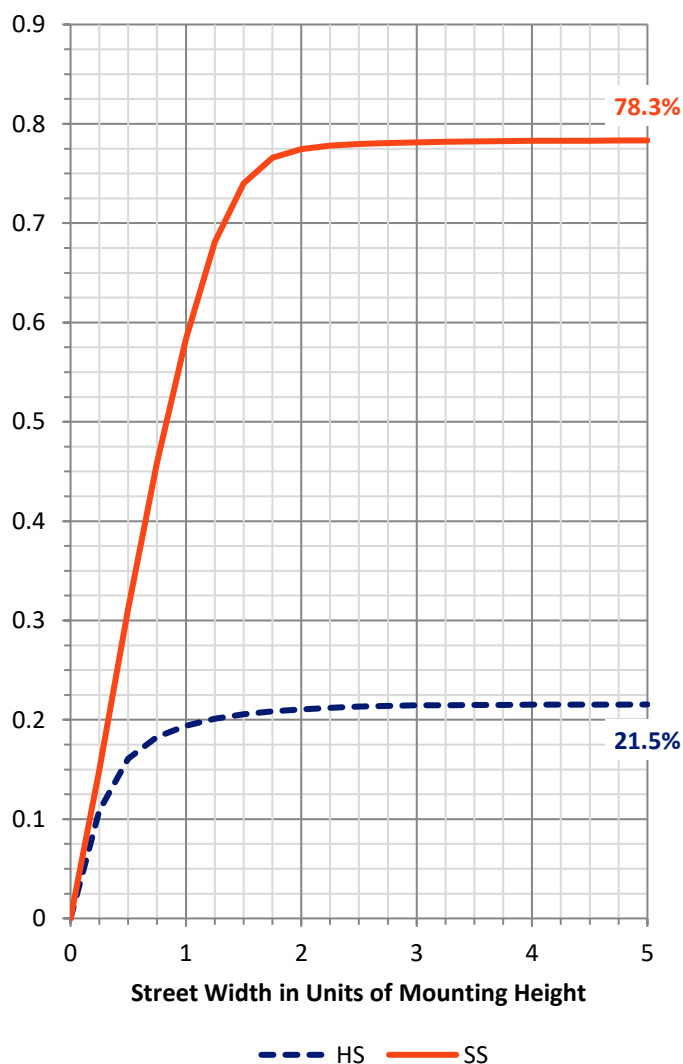
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5144.3	0.0	5144.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	18509.7	0.0	18509.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	23654.0	0.0	23654.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.1	1.9
10°-20°	1406.5	5.9
20°-30°	2551.0	10.8
30°-40°	4007.2	16.9
40°-50°	5845.8	24.7
50°-60°	7043.0	29.8
60°-70°	2062.1	8.7
70°-80°	261.6	1.1
80°-90°	36.7	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°	23654.0	100.0
0°-180°	23654.0	100.0

Coefficient of Utilization

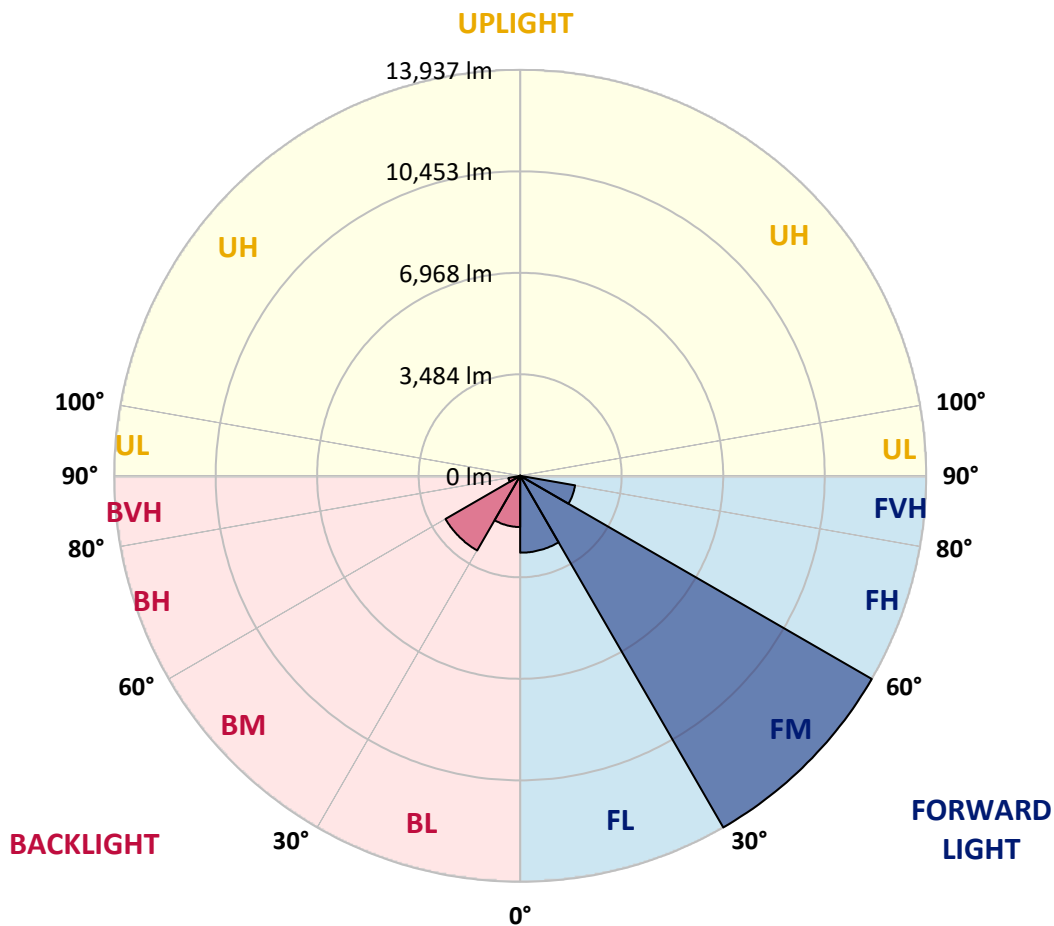


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2639.3	11.2			
FM (30°-60°)	13937.0	58.9			
FH (60°-80°)	1915.0	8.1			G2/5000
FVH (80°-90°)	18.4	0.1			G1/100
BL (0°-30°)	1758.3	7.4	B3/2500		
BM (30°-60°)	2959.0	12.5	B3/5000		
BH (60°-80°)	408.8	1.7	B1/500		G1/500
BVH (80°-90°)	18.3	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°	4517.9	4517.9	4517.9	4517.9	4517.9	4517.9	4517.9	4517.9	4517.9	4517.9	4517.9
2.5°	4599.8	4578.2	4578.2	4543.8	4582.5	4565.3	4578.2	4535.2	4578.2	4513.6	4565.3
5°	4621.3	4625.6	4608.4	4629.9	4629.9	4655.7	4612.7	4651.4	4673.0	4625.6	4604.1
7.5°	4733.3	4741.9	4737.6	4720.3	4754.8	4750.5	4746.2	4716.0	4724.7	4707.4	4681.6
10°	4952.9	4948.6	4970.1	4927.1	4901.2	4931.4	4940.0	4892.6	4858.2	4845.2	4763.4
12.5°	5271.6	5219.9	5189.8	5146.7	5159.7	5116.6	5194.1	5112.3	5095.0	5017.5	4935.7
15°	5530.0	5521.4	5525.7	5456.8	5379.3	5396.5	5396.5	5353.5	5327.6	5232.9	5116.6
17.5°	6059.8	5878.9	5917.7	5831.5	5766.9	5762.6	5723.9	5732.5	5663.6	5465.4	5288.9
20°	6473.3	6395.7	6335.4	6189.0	6089.9	6120.1	6102.9	6059.8	6038.3	5779.8	5530.0
22.5°	6843.6	6869.5	6770.4	6731.7	6593.8	6606.8	6641.2	6602.5	6438.8	6171.8	5801.4
25°	7364.8	7334.6	7201.1	7153.7	7024.5	7071.9	7205.4	7175.3	7071.9	6589.5	6012.4
27.5°	7980.7	7877.3	7903.1	7687.8	7562.9	7696.4	7855.8	8006.5	7713.6	7080.5	6262.2
30°	8415.7	8308.0	8299.4	8290.8	8260.6	8415.7	8600.9	8738.7	8501.8	7571.5	6675.7
32.5°	8631.0	8656.8	8730.1	8704.2	8966.9	9285.6	9479.5	9677.6	9380.4	8372.6	7222.6
35°	9203.8	9040.2	9203.8	9221.0	9492.4	10168.6	10414.1	10887.8	10814.6	9505.3	7890.2
37.5°	9539.8	9526.8	9548.4	9712.0	9974.7	10810.3	11159.1	11525.2	11387.4	10185.8	8721.4
40°	10095.3	10129.8	10125.5	10250.4	10539.0	11292.7	11434.8	11732.0	11744.9	11129.0	9944.6
42.5°	10986.9	10849.0	10758.6	10887.8	11292.7	11710.4	11994.7	11934.4	12360.8	12274.6	11516.6
45°	11787.9	11869.8	11736.3	11951.6	12098.0	12322.0	12313.4	12442.6	12985.3	13394.4	12701.0
47.5°	12537.3	12589.0	12653.6	12800.1	13118.8	13153.2	13080.0	13024.0	13773.4	14195.5	13618.4
50°	12985.3	13032.6	13334.1	13596.8	14191.2	14268.7	14311.8	14169.7	14677.9	14725.2	14484.1
52.5°	12864.7	12916.4	13338.4	14204.1	15151.6	15862.3	15733.1	15491.9	15461.7	15646.9	15285.1
55°	11796.6	11749.2	12330.6	13678.7	15453.1	17158.6	17175.9	16921.8	16435.1	16310.2	15164.5
56°	10887.8	10702.6	11443.4	13071.4	15065.5	17046.7	17240.5	16969.1	16512.6	15952.7	14419.5
57.5°	8919.6	9096.1	9832.6	11180.7	13726.0	16241.3	16353.2	16288.6	15944.1	15005.2	12688.1
60°	4918.5	5228.6	5878.9	7528.4	9772.3	12464.1	12554.6	13080.0	13144.6	11490.8	8730.1
62.5°	2088.8	2054.4	2730.6	3945.1	5564.5	7524.1	7692.1	8230.5	8329.5	6624.0	4380.1
65°	848.5	895.8	1236.1	1985.5	2941.6	3428.3	3665.2	3841.7	4169.1	2734.9	1615.1
67.5°	559.9	555.6	727.9	1132.7	1584.9	1528.9	1528.9	1615.1	1494.5	1115.5	697.7
70°	400.5	413.5	521.1	783.9	986.3	732.2	702.0	671.9	762.3	736.5	564.2
72.5°	262.7	279.9	348.9	469.5	512.5	400.5	400.5	482.4	628.8	594.4	460.8
75°	172.3	176.6	215.3	271.3	254.1	206.7	228.3	323.0	456.5	439.3	327.3
77.5°	116.3	120.6	146.4	176.6	142.1	116.3	124.9	163.7	224.0	224.0	172.3
80°	43.1	47.4	60.3	56.0	64.6	81.8	90.4	112.0	133.5	133.5	116.3
82.5°	0.0	4.3	12.9	30.1	47.4	64.6	73.2	86.1	99.1	112.0	107.7
85°	0.0	4.3	12.9	21.5	34.5	38.8	43.1	30.1	25.8	25.8	21.5
87.5°	0.0	0.0	4.3	4.3	4.3	4.3	4.3	4.3	8.6	4.3	4.3
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°	4517.9	4517.9	4517.9	4517.9	4517.9	4517.9	4517.9	4517.9	4517.9	4517.9	4517.9
2.5°	4517.9	4513.6	4513.6	4500.7	4526.5	4513.6	4522.2	4517.9	4461.9	4505.0	4474.9
5°	4565.3	4595.4	4548.1	4539.5	4505.0	4517.9	4517.9	4474.9	4513.6	4509.3	4500.7
7.5°	4685.9	4634.2	4582.5	4530.8	4522.2	4509.3	4461.9	4444.7	4474.9	4440.4	4492.1
10°	4737.6	4746.2	4668.7	4599.8	4535.2	4444.7	4380.1	4341.3	4294.0	4345.6	4375.8
12.5°	4974.5	4888.3	4754.8	4647.1	4427.5	4337.0	4272.4	4255.2	4337.0	4354.3	4324.1
15°	5056.3	5043.4	4871.1	4629.9	4401.6	4294.0	4306.9	4272.4	4281.0	4238.0	4246.6
17.5°	5224.3	5077.8	4875.4	4573.9	4397.3	4371.5	4294.0	4156.1	4078.6	4044.2	4074.3
20°	5409.4	5267.3	4974.5	4595.4	4436.1	4367.2	4113.1	3945.1	3785.8	3699.6	3703.9
22.5°	5573.1	5396.5	4931.4	4604.1	4470.5	4186.3	3880.5	3548.9	3350.8	3217.2	3221.6
25°	5771.2	5521.4	4948.6	4621.3	4380.1	3897.7	3458.4	3135.4	2898.5	2808.1	2838.2
27.5°	5883.2	5599.0	5043.4	4660.1	4143.2	3488.6	3014.8	2713.3	2575.5	2532.4	2528.1
30°	6219.1	5771.2	5159.7	4582.5	3747.0	3049.3	2610.0	2424.8	2291.3	2252.5	2261.1
32.5°	6718.7	6085.6	5310.4	4380.1	3342.1	2657.3	2347.3	2209.4	2084.5	2011.3	2002.7
35°	7136.5	6624.0	5469.7	4065.7	2872.7	2355.9	2162.1	1989.8	1800.3	1718.4	1696.9
37.5°	7933.3	7231.3	5435.3	3591.9	2424.8	2131.9	1963.9	1752.9	1589.2	1477.3	1464.3
40°	8992.8	7941.9	5267.3	3014.8	2093.1	1933.8	1752.9	1550.5	1348.1	1253.3	1244.7
42.5°	10280.5	8811.9	4961.5	2429.1	1761.5	1735.7	1572.0	1339.4	1158.6	1089.6	1093.9
45°	11327.1	9557.0	4651.4	1951.0	1516.0	1541.9	1399.7	1180.1	1055.2	999.2	999.2
47.5°	12257.4	10060.9	4315.5	1610.8	1287.8	1348.1	1223.2	1093.9	986.3	943.2	934.6
50°	13153.2	10573.4	3979.6	1305.0	1098.3	1158.6	1145.6	1042.3	956.1	904.4	908.8
52.5°	13713.1	10655.2	3553.2	1068.1	960.4	1029.3	1072.4	977.7	882.9	852.8	844.1
55°	13028.3	9600.1	2756.4	878.6	814.0	904.4	986.3	878.6	805.4	753.7	749.4
56°	12106.7	8583.6	2304.2	809.7	770.9	870.0	956.1	839.8	758.0	727.9	706.3
57.5°	10250.4	7024.5	1701.2	719.3	714.9	809.7	908.8	801.1	706.3	680.5	680.5
60°	6391.4	3953.7	1029.3	603.0	620.2	719.3	818.3	714.9	628.8	628.8	641.7
62.5°	2911.5	1645.2	624.5	512.5	534.1	620.2	727.9	646.0	598.7	646.0	654.6
65°	990.6	710.6	452.2	409.2	422.1	512.5	624.5	654.6	650.3	680.5	697.7
67.5°	555.6	456.5	379.0	340.2	331.6	379.0	512.5	654.6	628.8	615.9	624.5
70°	469.5	387.6	335.9	301.5	288.6	305.8	396.2	495.3	443.6	430.7	422.1
72.5°	379.0	323.0	292.9	271.3	232.6	198.1	180.9	189.5	211.0	224.0	245.5
75°	267.0	245.5	245.5	219.7	168.0	124.9	99.1	81.8	56.0	38.8	43.1
77.5°	150.7	150.7	155.0	133.5	107.7	81.8	60.3	43.1	21.5	8.6	4.3
80°	103.4	112.0	120.6	107.7	90.4	73.2	51.7	30.1	12.9	0.0	0.0
82.5°	103.4	116.3	124.9	107.7	90.4	68.9	51.7	30.1	12.9	4.3	0.0
85°	21.5	25.8	30.1	34.5	51.7	51.7	38.8	25.8	12.9	4.3	0.0
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	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)