

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: P532362

Luminaire Tested: **GALN-SA7D-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40662 lumens
Efficiency: N/A
Efficacy: 93.9 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

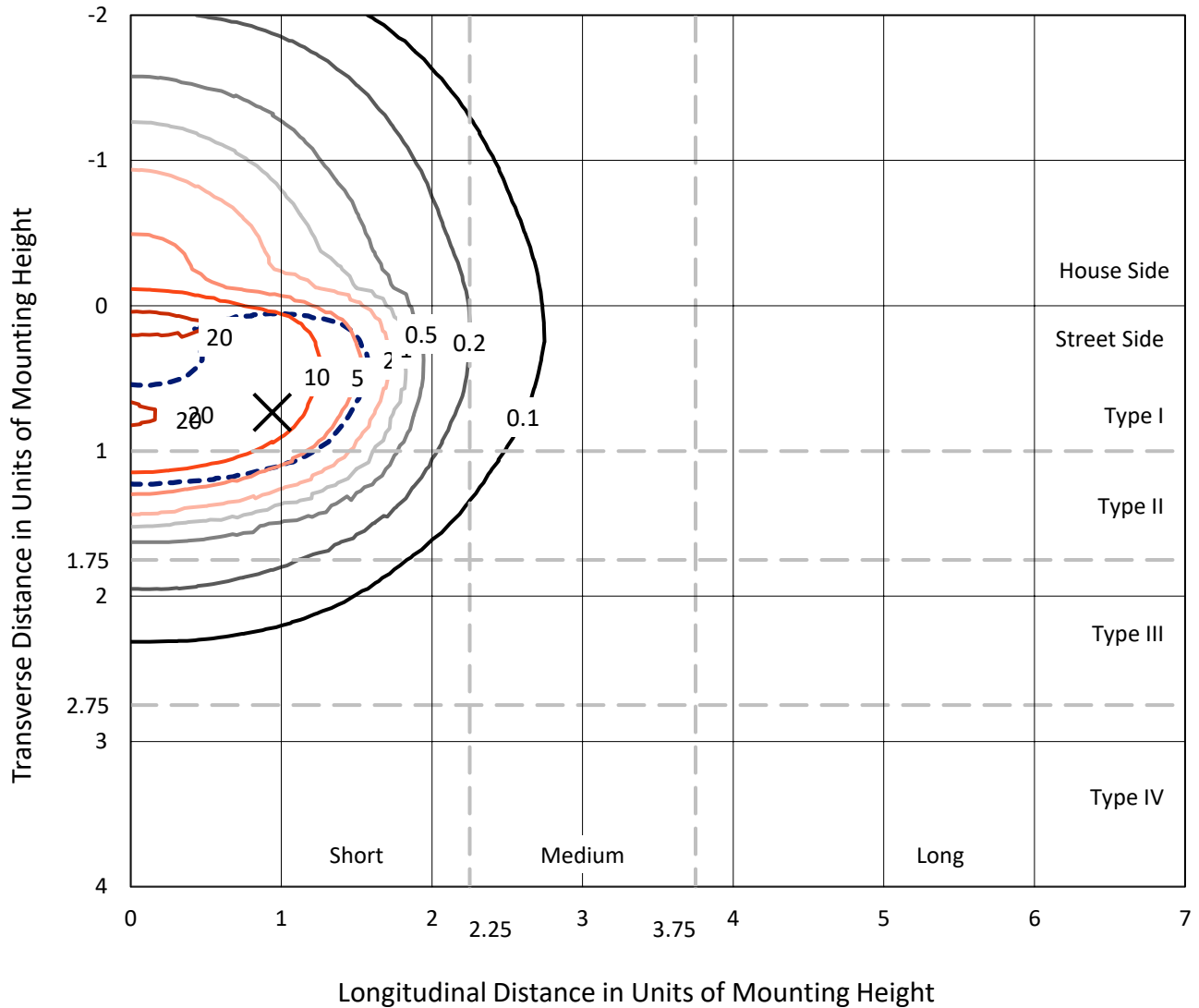
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

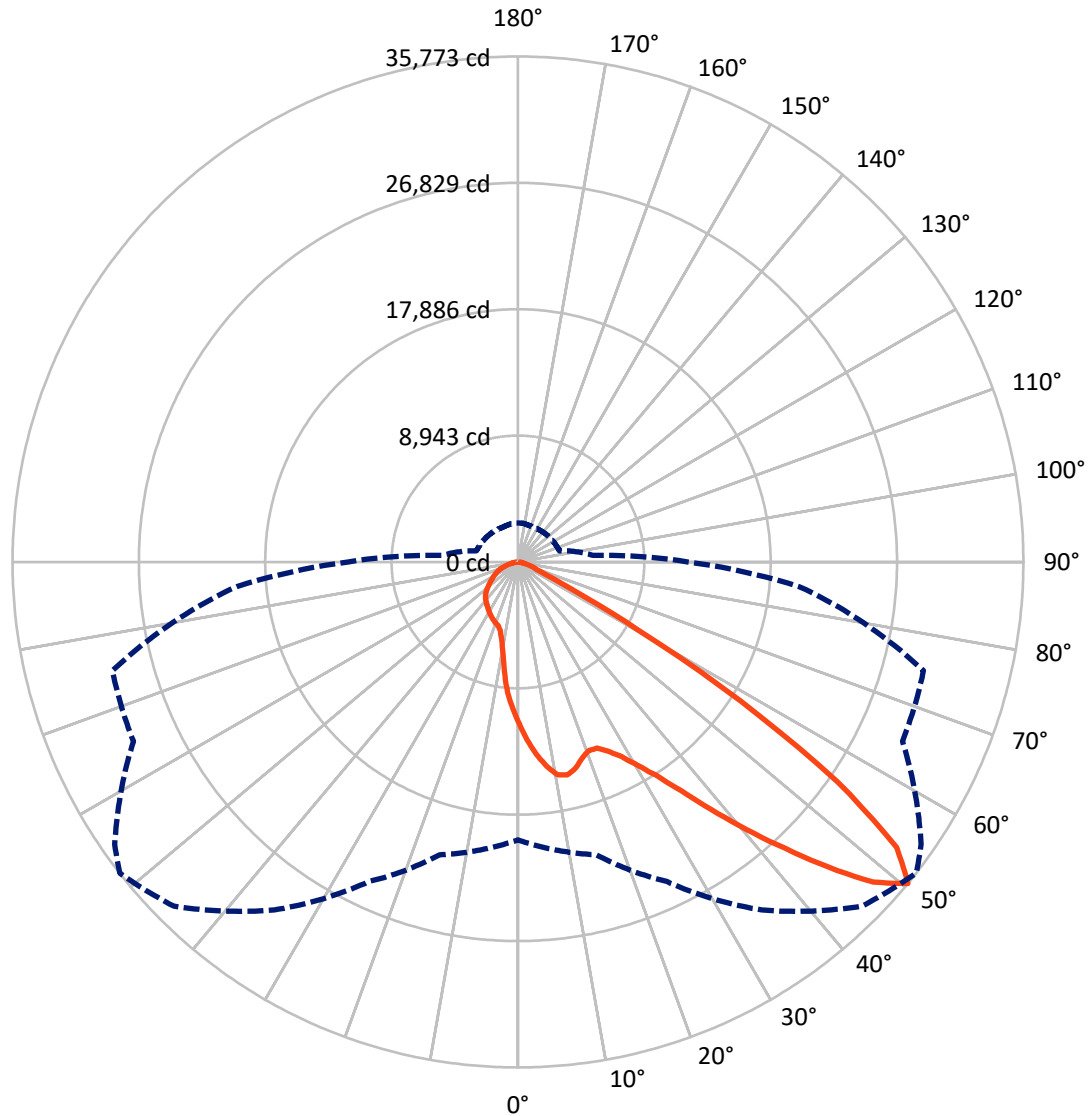
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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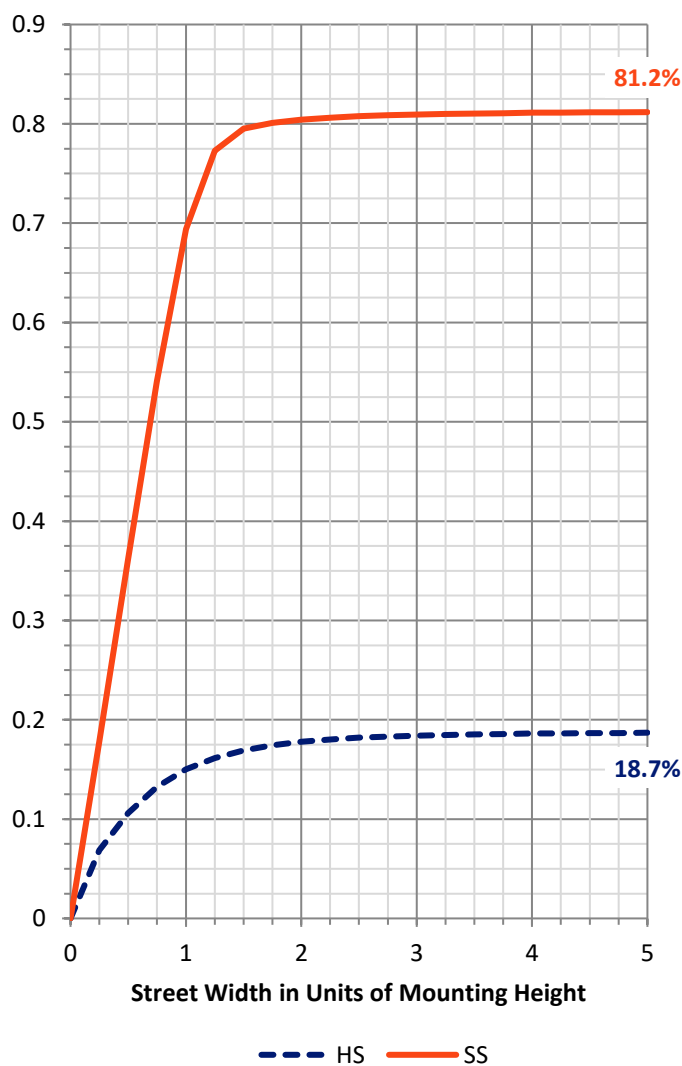
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7643.5	0.0	7643.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	33018.5	0.0	33018.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	40662.0	0.0	40662.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1056.4	2.6
10°-20°	2831.5	7.0
20°-30°	4769.6	11.7
30°-40°	8003.8	19.7
40°-50°	12243.8	30.1
50°-60°	8926.7	22.0
60°-70°	1986.6	4.9
70°-80°	716.6	1.8
80°-90°	126.8	0.3
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°	40662.0	100.0
0°-180°	40662.0	100.0

Coefficient of Utilization



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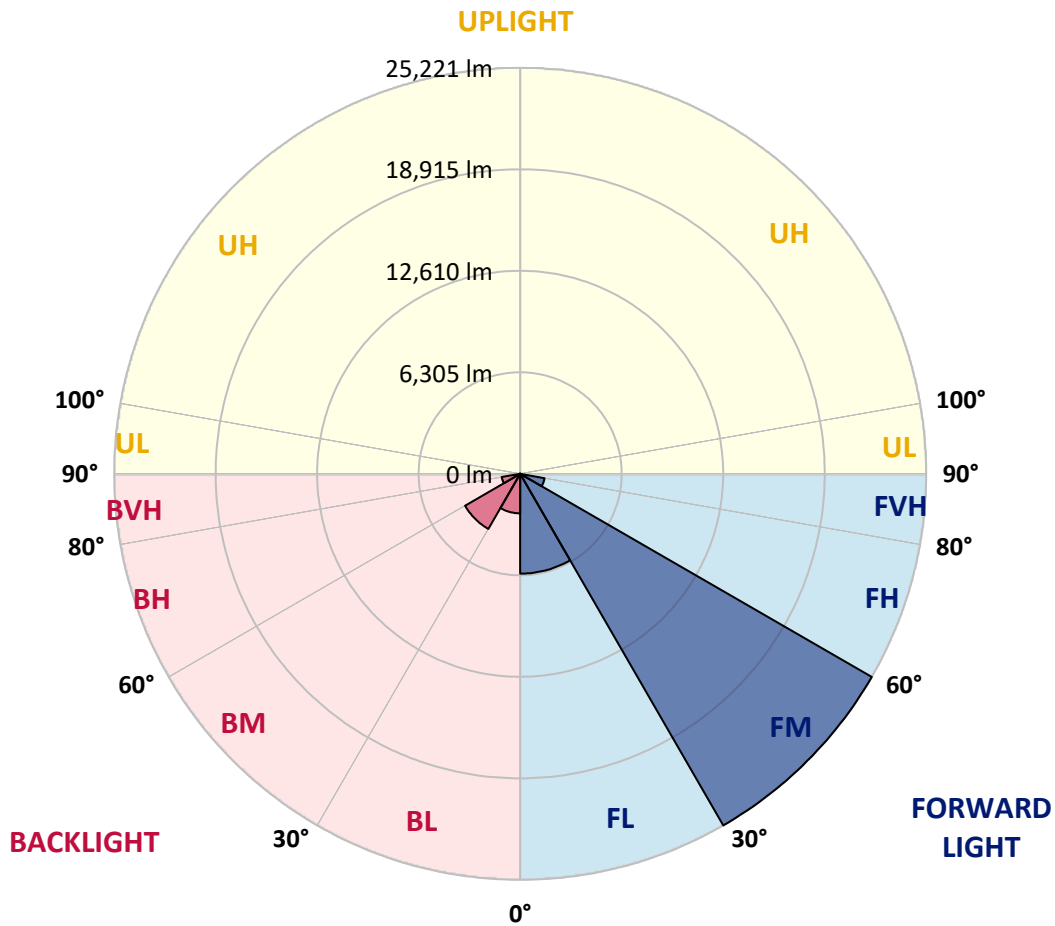
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6202.3	15.3			
FM (30°-60°)	25220.6	62.0			
FH (60°-80°)	1538.7	3.8			G1/1800
FVH (80°-90°)	56.8	0.1			G1/100
BL (0°-30°)	2455.2	6.0	B3/2500		
BM (30°-60°)	3953.7	9.7	B3/5000		
BH (60°-80°)	1164.5	2.9	B3/2500		G3/2500
BVH (80°-90°)	70.0	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°	52°	55°	65°	75°	85°
0°	11461.9	11461.9	11461.9	11461.9	11461.9	11461.9	11461.9	11461.9	11461.9	11461.9	11461.9
2.5°	13495.6	13235.9	13265.3	13079.1	12878.1	12819.3	12613.5	12417.5	12270.5	11956.9	11667.8
5°	14750.1	14671.7	14554.1	14407.1	14255.1	13882.7	13672.0	13427.0	12887.9	12402.8	11922.6
7.5°	14931.4	14916.7	14980.4	14980.4	15034.3	14892.2	14593.3	14421.8	13848.4	13059.5	12167.6
10°	13657.3	13701.4	14010.1	14412.0	14970.6	15357.7	15308.7	15264.6	14637.4	13559.3	12456.7
12.5°	12642.9	12544.9	12726.2	13069.3	13907.2	14843.2	15475.3	15480.2	15318.5	14358.1	12667.4
15°	12069.6	12138.2	12187.2	12348.9	12981.1	14064.0	15176.4	15504.7	16215.3	14921.6	13000.7
17.5°	12437.1	12206.8	12197.0	12236.2	12559.6	13373.1	14622.7	15186.2	16705.3	15646.9	13412.3
20°	12917.4	12912.5	12775.2	12726.2	12721.3	13446.6	14260.0	15024.5	16965.0	16587.7	13828.8
22.5°	13760.2	13760.2	13534.8	13427.0	13196.7	13789.6	14309.1	14828.5	17396.3	17234.6	14029.7
25°	15171.5	14941.2	14554.1	14289.5	14157.1	14367.9	14828.5	15294.0	17773.6	17920.6	14446.3
27.5°	16475.0	16112.4	15921.3	15465.5	15289.1	15166.6	15588.0	16058.5	18214.6	18988.9	14671.7
30°	17954.9	17891.2	17548.2	16960.1	16524.0	16298.6	16685.7	17151.3	19023.2	20081.7	15191.1
32.5°	20601.1	20022.9	19557.3	18837.0	18126.4	17646.2	18028.4	18337.1	20365.9	21223.5	15759.6
35°	23458.0	23271.8	22468.2	21169.6	20081.7	19650.4	19875.9	20106.2	21929.1	22968.0	16715.1
37.5°	26265.9	26011.1	25349.6	24256.8	22933.7	22056.5	22218.2	22487.8	23683.4	25320.2	17881.4
40°	28284.9	27971.3	27638.0	27476.3	26163.0	24962.4	24869.3	24937.9	26055.2	27525.3	19175.1
42.5°	28431.9	28819.0	28921.9	29573.7	29265.0	28280.0	27706.6	27721.3	28319.2	29706.0	20483.5
45°	28123.2	27765.4	28525.0	30303.8	31323.1	31783.7	30818.4	30695.9	29720.7	30970.3	21135.3
47.5°	24884.0	24982.0	26265.9	29078.7	32023.9	34082.0	33856.6	33449.9	30470.4	30926.2	21032.3
50°	19670.0	20263.0	21453.8	24957.5	30063.7	34444.6	35772.6	34831.8	30024.5	29710.9	19983.7
52.5°	13098.7	13343.7	14127.7	18650.8	24173.5	30789.0	33567.5	33783.1	29612.9	28118.3	18655.7
55°	5831.4	5811.8	6914.4	9741.9	15166.6	23428.6	27427.3	28740.6	28030.1	26496.3	17362.0
57.5°	2469.8	2553.1	3003.9	4209.4	7458.3	14137.5	18582.2	19733.8	21556.7	21757.6	13319.2
60°	1671.0	1680.8	1803.3	2107.2	3121.5	6640.0	9746.8	11128.7	12432.2	12344.0	7066.3
62.5°	1313.3	1347.6	1440.7	1563.2	1852.3	3013.7	4361.3	5130.7	5214.0	4385.8	2680.5
65°	1122.2	1127.1	1220.2	1323.1	1450.5	1754.3	2102.3	2141.5	2166.0	2087.6	1969.9
67.5°	926.2	936.0	1009.5	1127.1	1244.7	1342.7	1440.7	1489.7	1602.4	1822.9	1793.5
70°	735.1	749.8	813.5	911.5	1019.3	1078.1	1200.6	1244.7	1347.6	1519.1	1587.7
72.5°	558.6	563.5	617.4	686.1	784.1	842.9	945.8	994.8	1063.4	1210.4	1274.1
75°	401.8	416.5	455.7	490.0	504.7	543.9	641.9	695.9	793.9	857.6	862.5
77.5°	210.7	220.5	230.3	230.3	279.3	352.8	416.5	445.9	514.5	563.5	539.0
80°	83.3	88.2	112.7	151.9	196.0	254.8	298.9	313.6	372.4	401.8	416.5
82.5°	49.0	53.9	73.5	107.8	142.1	181.3	215.6	230.3	269.5	303.8	313.6
85°	24.5	29.4	44.1	68.6	93.1	112.7	107.8	102.9	102.9	98.0	102.9
87.5°	9.8	9.8	14.7	14.7	14.7	19.6	24.5	24.5	24.5	29.4	29.4
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°	11461.9	11461.9	11461.9	11461.9	11461.9	11461.9	11461.9	11461.9	11461.9	11461.9	11461.9
2.5°	11476.6	11280.6	11099.3	10766.1	10403.5	10300.6	9879.1	9727.2	9619.4	9492.0	9452.8
5°	11535.4	11275.7	10692.6	10021.2	9487.1	8801.0	8350.2	7865.1	7512.3	7424.0	7399.5
7.5°	11658.0	11212.0	10207.5	9193.1	8100.3	7169.2	6458.7	6076.4	5738.3	5718.7	5684.4
10°	11795.2	11020.9	9678.2	8085.6	6689.0	5826.5	5400.2	5233.6	5150.3	5130.7	5120.9
12.5°	11907.9	10981.7	9085.3	7007.5	5689.3	5169.9	5042.5	5027.8	5062.1	5071.9	5091.5
15°	11956.9	10824.9	8369.8	6042.1	5067.0	4875.9	4929.8	4988.6	5013.1	5076.8	5027.8
17.5°	12050.0	10624.0	7487.8	5277.7	4719.0	4753.3	4846.5	4915.1	4954.3	4998.4	4934.7
20°	12099.0	10442.7	6659.6	4822.0	4596.5	4660.2	4787.7	4841.6	4890.6	4910.2	4836.7
22.5°	12054.9	10070.2	5929.4	4454.4	4478.9	4562.2	4674.9	4733.7	4704.3	4625.9	4581.8
25°	11937.3	9545.9	5169.9	4219.2	4312.3	4459.3	4547.5	4503.4	4449.5	4405.4	4390.7
27.5°	11932.4	8904.0	4621.0	4003.6	4170.2	4371.1	4341.7	4302.5	4327.0	4292.7	4253.5
30°	11956.9	8281.6	4170.2	3881.1	4067.3	4165.3	4199.6	4160.4	4189.8	4126.1	4145.7
32.5°	11829.5	7674.0	3876.2	3739.0	3944.8	3939.9	4052.6	4082.0	4013.4	3881.1	3900.7
35°	11883.4	7183.9	3626.3	3675.3	3807.6	3807.6	3895.8	3861.5	3680.2	3601.8	3621.4
37.5°	12255.8	6703.7	3503.8	3587.1	3675.3	3714.5	3685.1	3538.1	3494.0	3494.0	3503.8
40°	12608.6	6292.1	3430.3	3567.5	3552.8	3577.3	3361.6	3376.3	3376.3	3381.2	3356.7
42.5°	12922.3	6012.7	3371.4	3449.9	3474.4	3346.9	3214.6	3199.9	3234.2	3229.3	3209.7
45°	13035.0	5782.4	3288.1	3317.5	3337.1	3126.4	3062.7	3033.3	3072.5	3087.2	3106.8
47.5°	12603.7	5591.3	3195.0	3136.2	3097.0	2959.8	2876.5	2822.6	2871.6	2954.9	2974.5
50°	12050.0	5341.4	3048.0	2935.3	2852.0	2793.2	2734.4	2680.5	2714.8	2773.6	2758.9
52.5°	11231.6	4949.4	2861.8	2744.2	2602.1	2616.8	2562.9	2533.5	2553.1	2553.1	2538.4
55°	10065.3	4067.3	2548.2	2464.9	2347.3	2386.5	2396.3	2357.1	2317.9	2352.2	2322.8
57.5°	6870.3	2871.6	2273.8	2273.8	2156.2	2210.1	2205.2	2112.1	2018.9	2028.7	2009.1
60°	3974.2	2288.5	2097.4	2077.8	1955.2	1999.3	2009.1	1945.4	1803.3	1813.1	1793.5
62.5°	2259.1	1955.2	1832.7	1803.3	1778.8	1818.0	1818.0	1734.7	1612.2	1622.0	1602.4
65°	1920.9	1813.1	1636.7	1631.8	1622.0	1631.8	1592.6	1504.4	1396.6	1352.5	1357.4
67.5°	1744.5	1675.9	1504.4	1460.3	1430.9	1426.0	1352.5	1269.2	1220.2	1181.0	1176.1
70°	1528.9	1475.0	1347.6	1288.8	1259.4	1190.8	1117.3	1063.4	994.8	975.2	994.8
72.5°	1210.4	1205.5	1156.5	1092.8	1029.1	975.2	911.5	838.0	774.3	759.6	725.3
75°	838.0	847.8	857.6	847.8	793.9	725.3	651.7	592.9	514.5	470.4	460.6
77.5°	548.8	563.5	578.2	558.6	524.3	460.6	411.6	338.1	279.3	245.0	240.1
80°	401.8	421.4	431.2	416.5	377.3	328.3	274.4	215.6	171.5	142.1	142.1
82.5°	308.7	328.3	338.1	313.6	274.4	235.2	196.0	151.9	117.6	93.1	88.2
85°	107.8	102.9	122.5	127.4	151.9	142.1	117.6	88.2	68.6	49.0	44.1
87.5°	29.4	29.4	34.3	34.3	29.4	24.5	24.5	24.5	19.6	14.7	14.7
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)