

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: P530504

Luminaire Tested: **GALN-SA5D-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
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-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28471 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

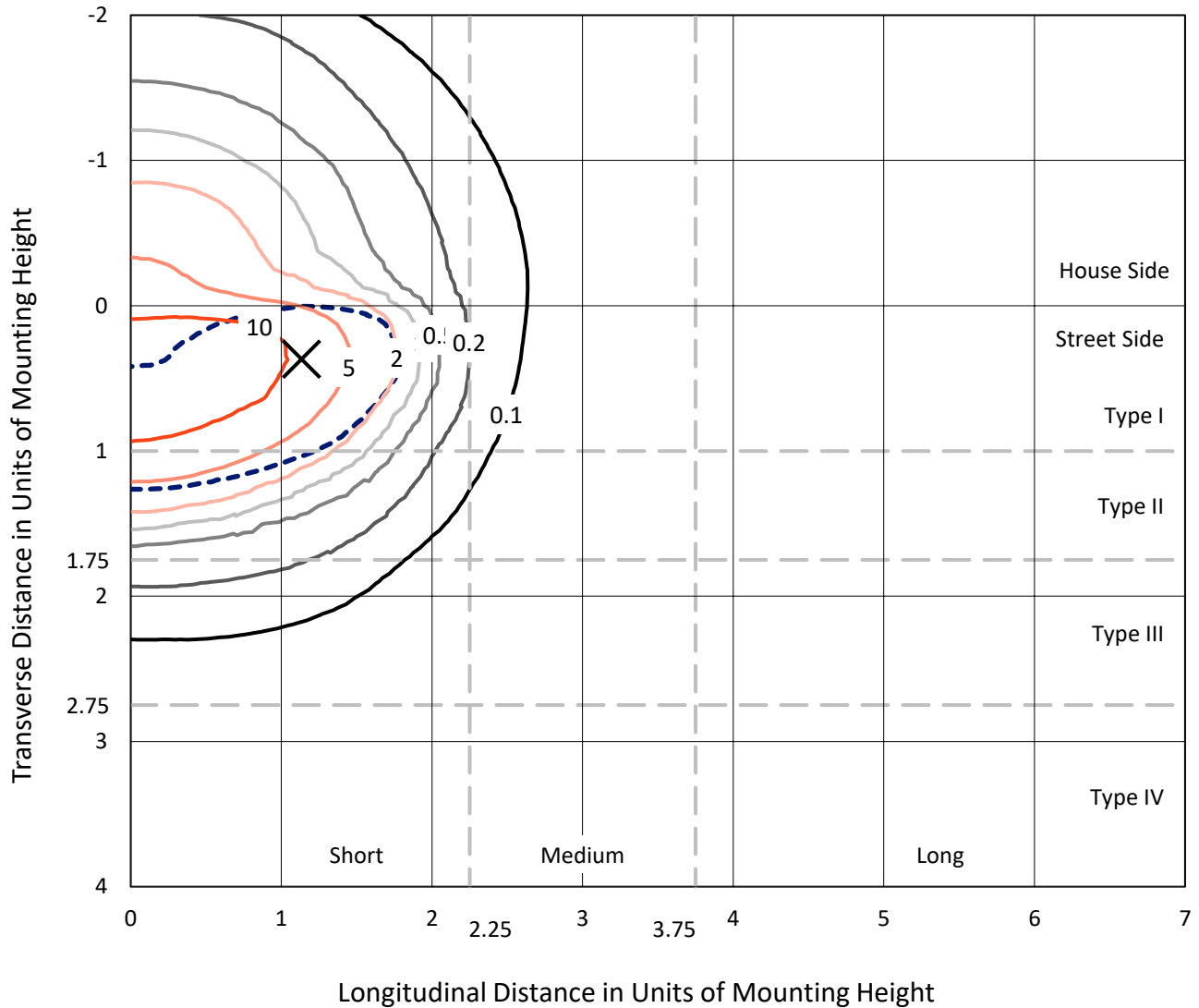
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

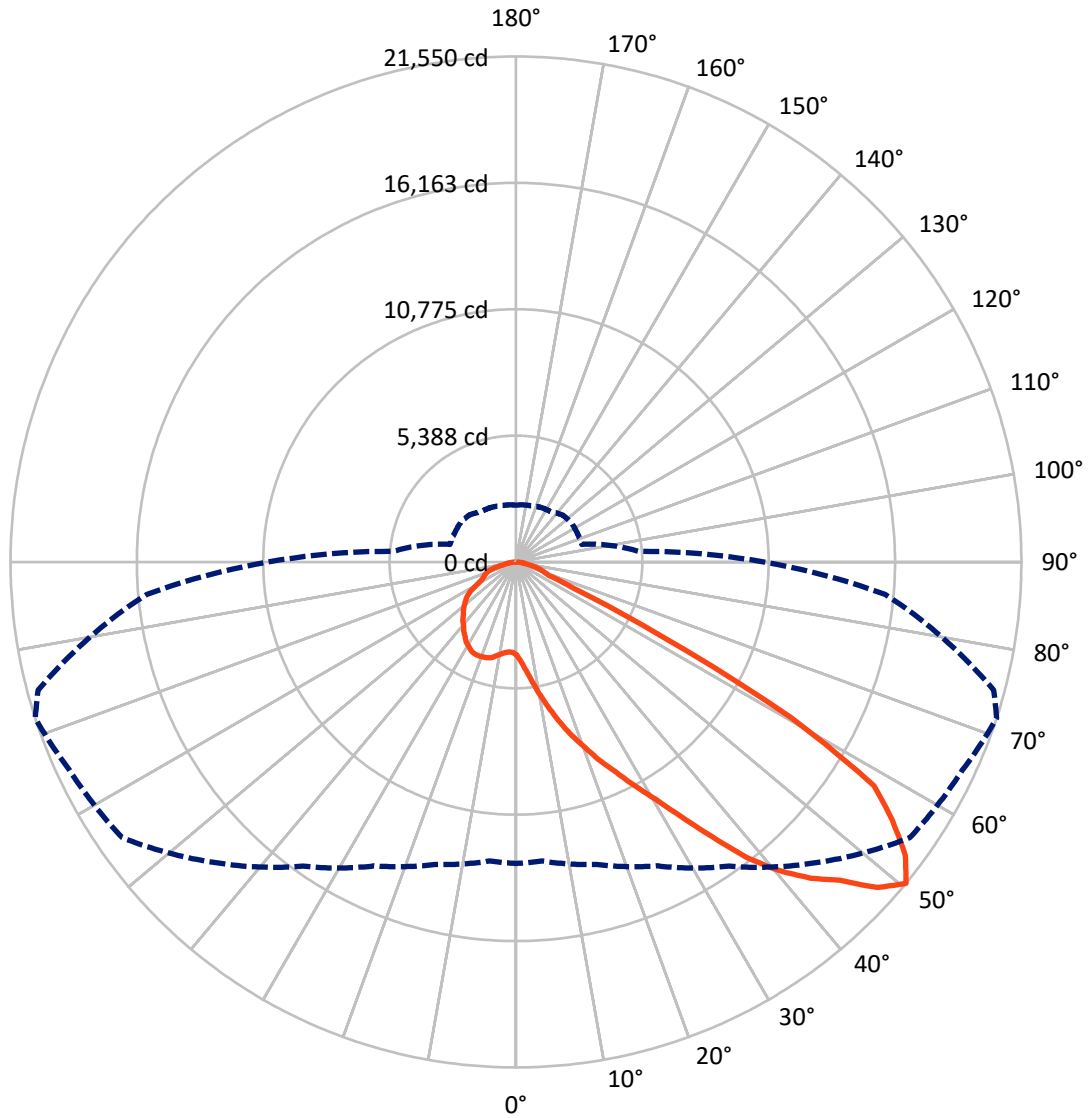
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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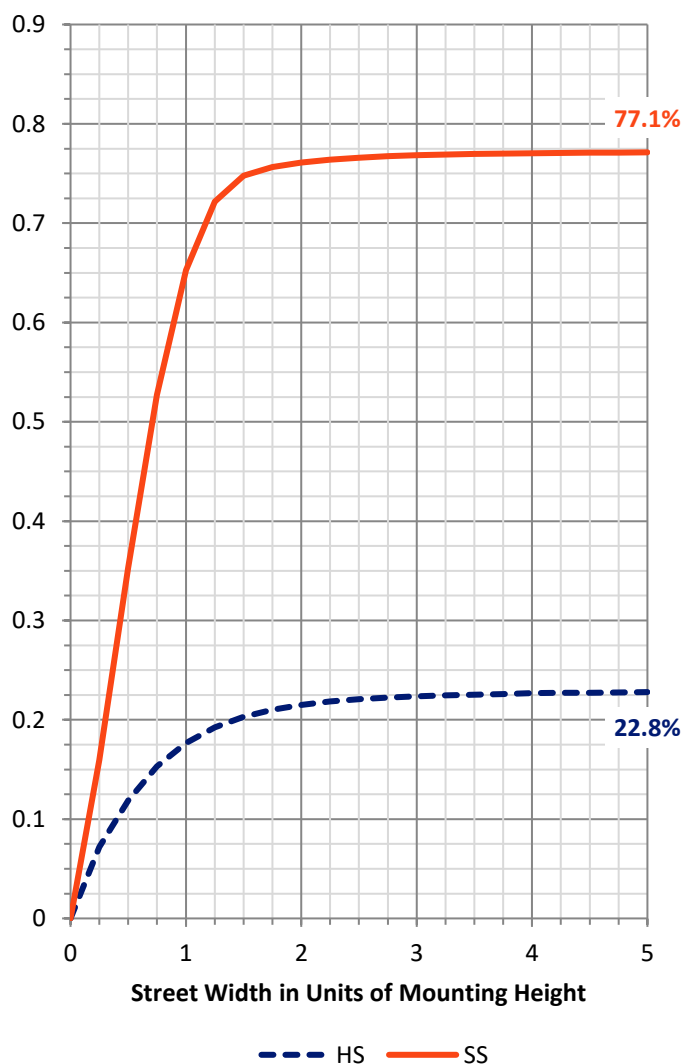
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6522.9	0.0	6522.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	21948.1	0.0	21948.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	28471.0	0.0	28471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.2	1.6
10°-20°	1742.8	6.1
20°-30°	3379.2	11.9
30°-40°	5598.1	19.7
40°-50°	7833.0	27.5
50°-60°	6608.1	23.2
60°-70°	2014.1	7.1
70°-80°	706.6	2.5
80°-90°	122.9	0.4
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°	28471.0	100.0
0°-180°	28471.0	100.0

Coefficient of Utilization



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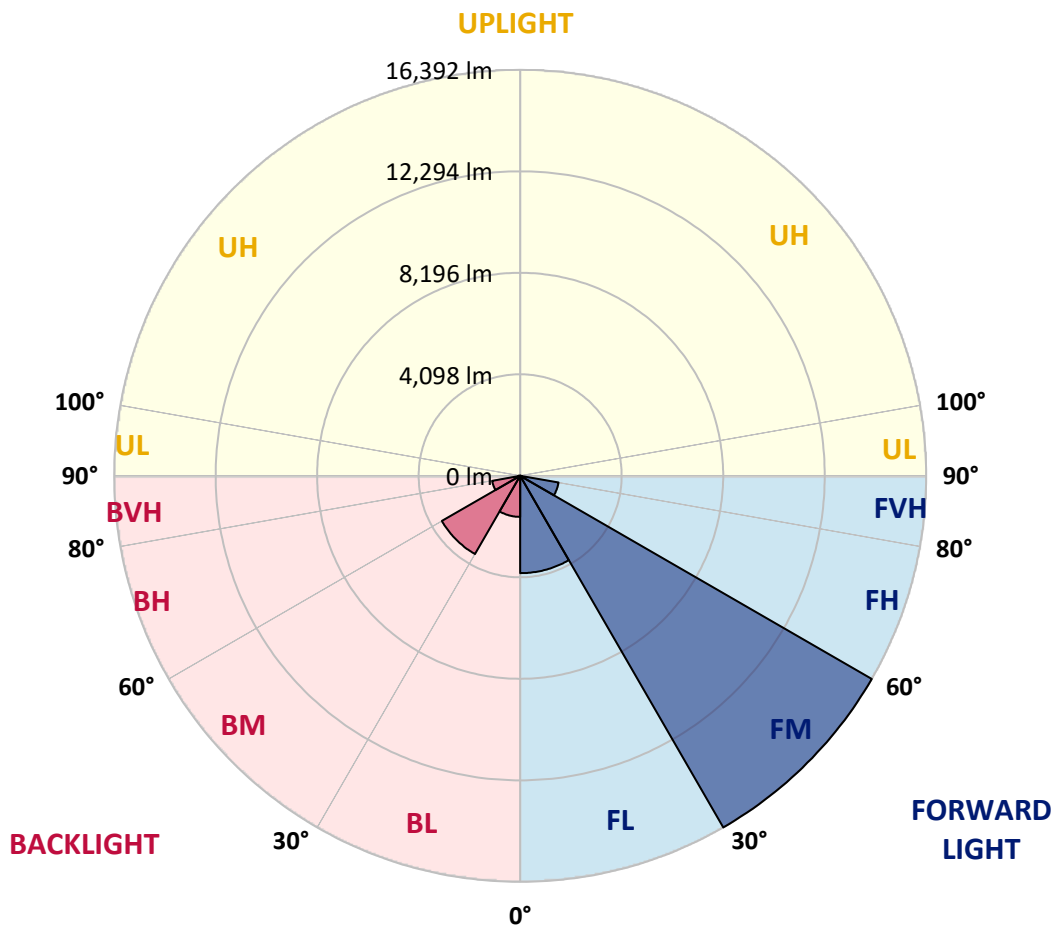
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3930.0	13.8			
FM (30°-60°)	16391.5	57.6			
FH (60°-80°)	1571.6	5.5			G1/1800
FVH (80°-90°)	55.0	0.2			G1/100
BL (0°-30°)	1658.1	5.8	B3/2500		
BM (30°-60°)	3647.7	12.8	B3/5000		
BH (60°-80°)	1149.2	4.0	B3/2500		G3/2500
BVH (80°-90°)	67.8	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°	55°	65°	72°	75°	85°
0°	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4
2.5°	5097.8	5066.1	4971.0	4939.3	4826.5	4622.2	4551.8	4343.9	4255.8	4174.8	4079.7
5°	6447.1	6299.2	6288.6	6108.9	5848.2	5696.7	5245.8	4942.8	4664.5	4523.6	4262.9
7.5°	7306.8	7310.3	7310.3	7162.3	6954.5	6570.4	6165.3	5619.2	5200.0	4992.1	4548.2
10°	8124.1	8053.6	8014.9	8000.8	7859.9	7486.4	7053.1	6376.7	5802.4	5559.3	4763.1
12.5°	8701.9	8642.0	8730.1	8684.3	8582.1	8339.0	7930.3	7158.8	6440.1	6112.5	5108.4
15°	8976.7	9019.0	9089.4	9216.2	9170.4	9078.8	8627.9	7962.0	7127.1	6757.2	5414.9
17.5°	9399.4	9283.2	9367.7	9526.3	9653.1	9610.8	9353.6	8543.3	7807.0	7352.6	5827.1
20°	9695.4	9628.4	9670.7	9853.9	9949.0	10188.6	10054.7	9304.3	8458.8	7979.7	6313.3
22.5°	10540.9	10442.3	10304.9	10333.0	10368.3	10537.4	10569.1	10139.3	9216.2	8708.9	6774.8
25°	11583.7	11492.1	11330.1	11164.5	11062.3	11030.6	11139.8	10794.6	9942.0	9417.1	7271.5
27.5°	12732.2	12577.2	12475.0	12133.3	11858.5	11816.2	11763.4	11576.7	10801.6	10234.4	7831.7
30°	13849.0	13725.7	13588.3	13042.2	12756.9	12711.1	12450.4	12503.2	11735.2	11104.6	8465.8
32.5°	14694.5	14705.1	14391.6	13979.4	13711.6	13468.5	13373.4	13524.9	12933.0	12425.7	9174.0
35°	15378.0	15409.7	15110.3	14736.8	14447.9	14617.0	14574.8	14645.2	14363.4	13743.3	9998.4
37.5°	16043.9	15885.3	15564.7	15385.1	15233.6	15511.9	15871.2	15931.1	15984.0	15254.7	10956.6
40°	16153.1	16167.2	15980.5	16107.3	15917.0	16336.3	17171.2	17093.7	17308.6	16671.0	11995.9
42.5°	15998.1	16029.8	16103.8	16283.4	16741.4	17245.2	18485.3	18168.3	18429.0	17861.7	13007.0
45°	15744.4	15614.1	15705.7	16389.1	17181.8	18302.1	19686.7	19440.1	19355.5	18879.9	14211.9
47.5°	14532.5	14666.4	14951.7	15793.7	16984.5	18485.3	20539.3	20482.9	20736.5	20401.9	15307.6
50°	12852.0	12799.2	13348.8	14296.4	15832.5	18126.0	20493.5	21004.3	21550.4	21085.3	15797.3
52.5°	9624.9	9906.8	10378.8	11555.5	13746.9	16167.2	19492.9	20345.5	20789.4	20690.7	15402.7
55°	6084.3	6168.8	6454.2	7852.8	9825.7	12975.3	16709.7	18686.1	19478.8	19848.7	15039.8
57.5°	2955.8	2797.3	3146.1	4269.9	5675.6	8726.5	12887.2	16276.4	17999.1	18668.5	14250.6
60°	1543.1	1603.0	1740.4	2142.0	2934.7	4530.6	8032.5	10847.4	13479.1	14507.8	10801.6
62.5°	1278.9	1300.0	1391.6	1592.4	1951.8	2607.0	4100.8	5288.1	6873.4	7800.0	6144.2
65°	1085.1	1095.7	1194.3	1328.2	1557.2	1835.5	2110.3	2208.9	2674.0	2744.4	2184.3
67.5°	905.4	916.0	1021.7	1148.5	1296.5	1370.5	1440.9	1433.9	1486.7	1465.6	1462.1
70°	697.6	708.1	817.3	951.2	1025.2	982.9	1201.4	1250.7	1271.8	1289.4	1317.6
72.5°	503.8	524.9	609.5	704.6	665.9	764.5	990.0	1064.0	1092.1	1102.7	1137.9
75°	366.4	373.4	394.6	366.4	422.8	532.0	697.6	789.2	824.4	835.0	887.8
77.5°	162.1	165.6	169.1	211.4	271.3	331.2	415.7	489.7	539.0	553.1	567.2
80°	84.6	88.1	109.2	144.4	193.8	243.1	303.0	345.3	377.0	380.5	394.6
82.5°	52.8	56.4	77.5	102.2	137.4	179.7	222.0	257.2	281.8	285.4	288.9
85°	24.7	31.7	45.8	63.4	91.6	116.3	119.8	102.2	109.2	112.7	105.7
87.5°	7.0	10.6	14.1	10.6	14.1	14.1	17.6	21.1	21.1	21.1	24.7
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°	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4
2.5°	4026.8	3995.1	3871.8	3826.0	3706.2	3727.4	3663.9	3660.4	3646.3	3642.8	3639.3
5°	4125.5	4026.8	3878.9	3766.1	3699.2	3692.1	3646.3	3646.3	3660.4	3671.0	3646.3
7.5°	4287.5	4174.8	3924.7	3819.0	3759.1	3748.5	3716.8	3692.1	3723.8	3713.3	3685.1
10°	4474.2	4277.0	4012.7	3921.1	3822.5	3797.8	3797.8	3808.4	3755.5	3773.2	3745.0
12.5°	4682.1	4417.9	4125.5	4019.8	3903.5	3889.4	3882.4	3804.9	3833.1	3819.0	3748.5
15°	4946.3	4579.9	4269.9	4090.2	3991.6	3928.2	3836.6	3822.5	3804.9	3769.6	3737.9
17.5°	5231.7	4756.1	4336.8	4111.4	3963.4	3917.6	3847.1	3773.2	3720.3	3727.4	3702.7
20°	5474.8	4918.1	4361.5	4132.5	3942.3	3854.2	3745.0	3699.2	3642.8	3639.3	3635.8
22.5°	5763.7	5136.6	4396.7	4076.1	3878.9	3787.3	3713.3	3632.2	3593.5	3544.2	3568.8
25°	6108.9	5221.1	4403.8	4044.4	3833.1	3671.0	3632.2	3544.2	3530.1	3459.6	3473.7
27.5°	6359.1	5266.9	4347.4	3945.8	3727.4	3604.1	3533.6	3470.2	3445.5	3392.7	3378.6
30°	6693.8	5337.4	4227.6	3822.5	3621.7	3484.3	3442.0	3427.9	3357.4	3301.1	3294.0
32.5°	7074.2	5383.2	4150.1	3695.7	3512.5	3406.8	3427.9	3361.0	3272.9	3223.6	3209.5
35°	7377.2	5400.8	3956.4	3551.2	3438.5	3371.5	3346.9	3332.8	3206.0	3160.2	3124.9
37.5°	7838.7	5362.0	3794.3	3449.0	3357.4	3332.8	3311.6	3216.5	3072.1	3005.1	2955.8
40°	8377.8	5351.5	3586.4	3304.6	3279.9	3308.1	3244.7	3096.7	2895.9	2821.9	2786.7
42.5°	8895.6	5425.5	3456.1	3227.1	3195.4	3206.0	3117.9	2895.9	2797.3	2755.0	2698.6
45°	9762.3	5580.5	3241.2	3107.3	3093.2	3086.2	2980.5	2748.0	2691.6	2638.7	2628.2
47.5°	10544.4	5478.3	3103.8	2984.0	2998.1	2959.3	2733.9	2659.9	2596.5	2543.6	2526.0
50°	10590.2	5235.2	2910.0	2888.9	2892.4	2825.5	2610.6	2561.2	2480.2	2445.0	2420.3
52.5°	10350.7	4837.1	2730.3	2737.4	2748.0	2638.7	2459.1	2423.8	2356.9	2307.6	2293.5
55°	9677.8	4217.1	2554.2	2582.4	2610.6	2402.7	2346.3	2258.3	2205.4	2135.0	2138.5
57.5°	8525.7	3396.2	2307.6	2353.4	2413.3	2184.3	2142.0	2032.8	1955.3	1898.9	1891.9
60°	5714.4	2416.8	1937.7	1955.3	2089.2	1997.6	1994.0	1884.8	1779.1	1729.8	1701.6
62.5°	3371.5	1846.1	1673.4	1655.8	1652.3	1705.1	1793.2	1754.5	1617.1	1521.9	1550.1
65°	1765.0	1595.9	1557.2	1497.3	1462.1	1448.0	1514.9	1532.5	1440.9	1338.8	1331.7
67.5°	1483.2	1483.2	1451.5	1430.3	1381.0	1321.1	1278.9	1222.5	1208.4	1180.2	1145.0
70°	1349.3	1384.5	1374.0	1324.7	1282.4	1215.4	1106.2	1014.6	926.6	894.8	916.0
72.5°	1176.7	1211.9	1211.9	1187.3	1130.9	1028.7	923.0	817.3	743.4	687.0	679.9
75°	905.4	923.0	965.3	937.1	863.1	799.7	690.5	581.3	510.8	458.0	447.4
77.5°	577.8	606.0	606.0	602.4	549.6	489.7	419.2	341.7	288.9	250.1	239.6
80°	384.0	401.6	415.7	401.6	366.4	320.6	267.8	214.9	176.2	144.4	137.4
82.5°	281.8	303.0	313.5	299.5	264.2	229.0	190.2	151.5	112.7	88.1	81.0
85°	109.2	112.7	126.8	151.5	148.0	144.4	116.3	84.6	63.4	45.8	42.3
87.5°	28.2	24.7	28.2	28.2	24.7	21.1	21.1	21.1	21.1	10.6	14.1
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)