

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: P530533

Luminaire Tested: **GALN-SA5D-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-730-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21457 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

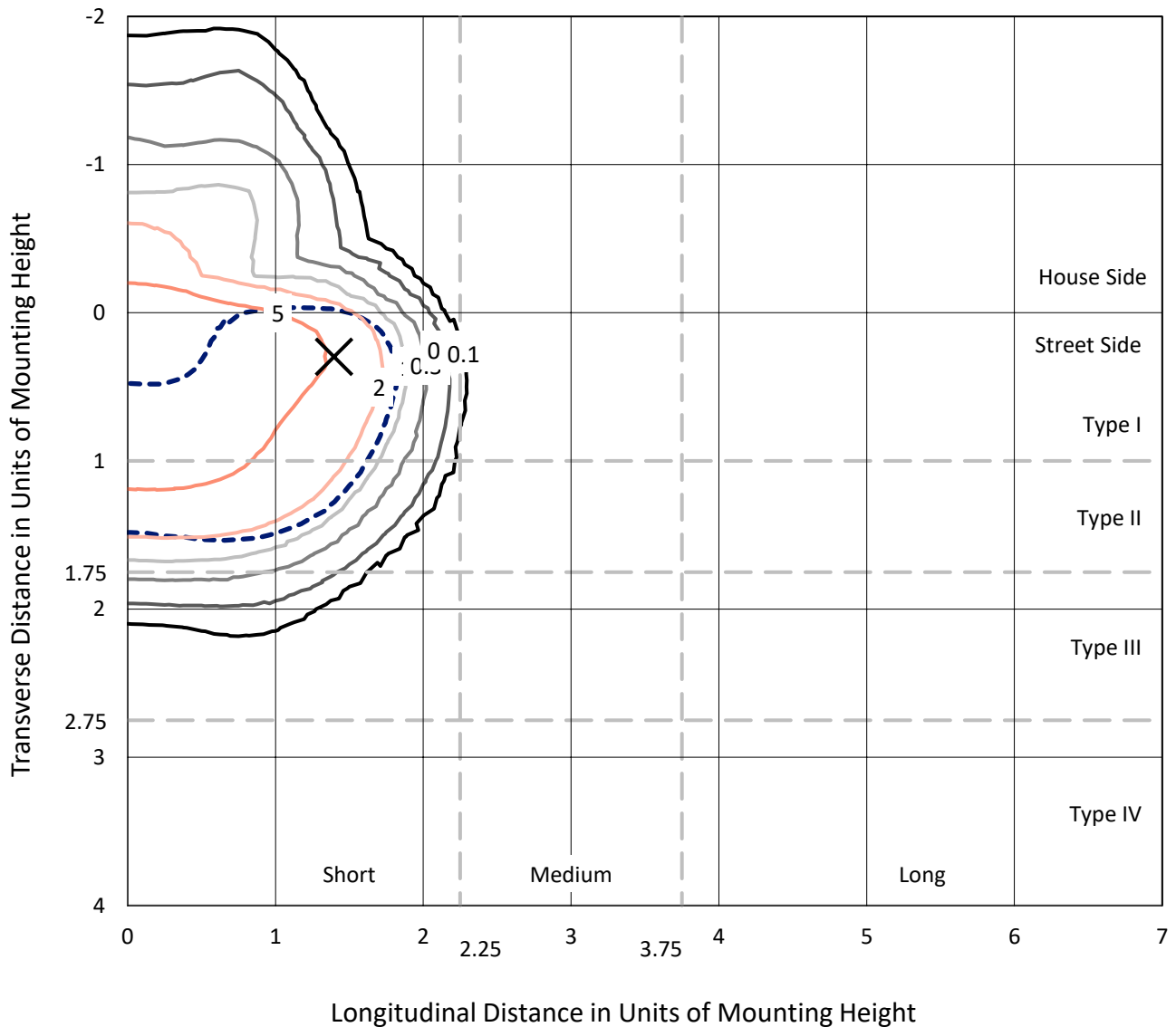
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

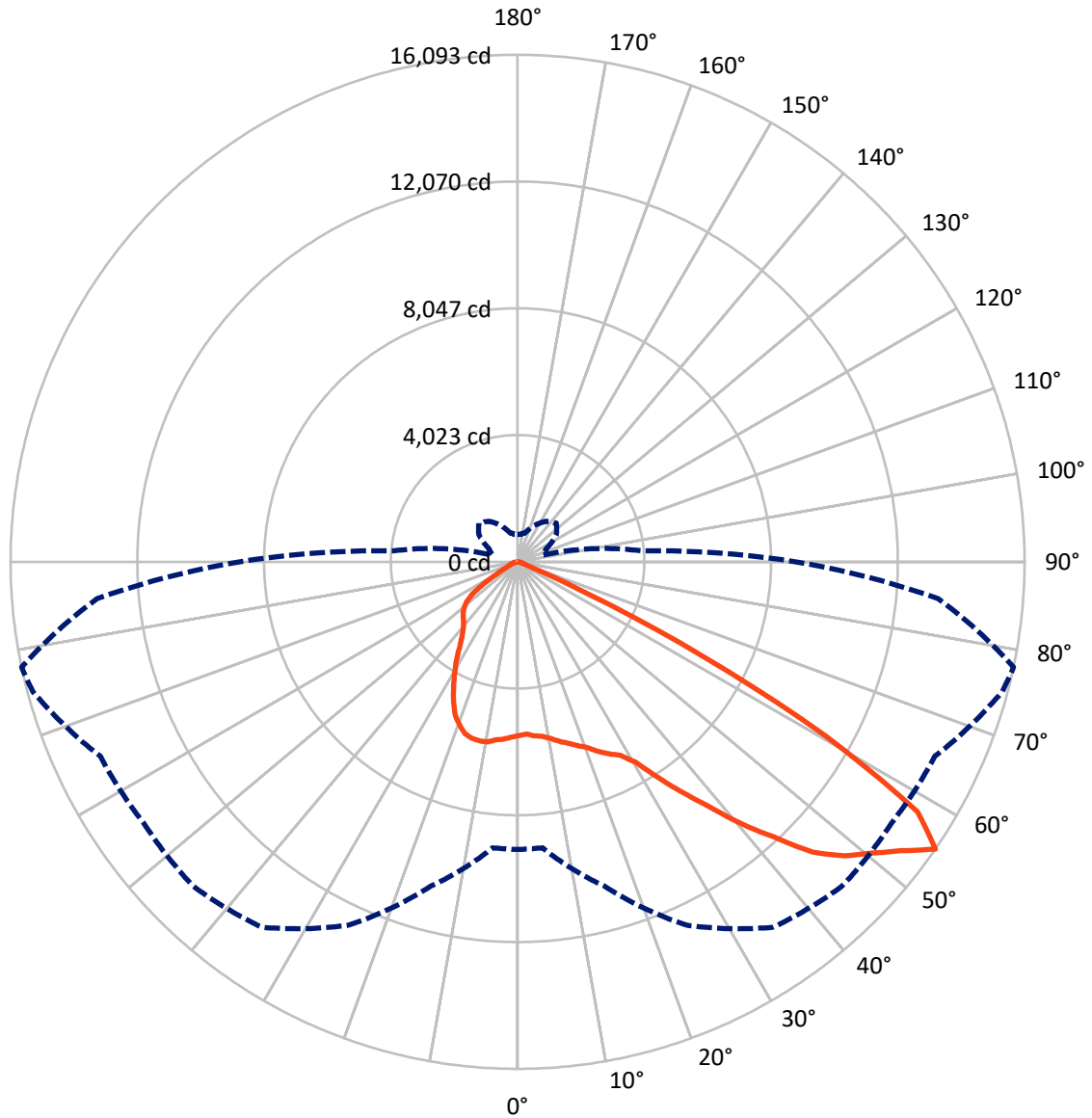
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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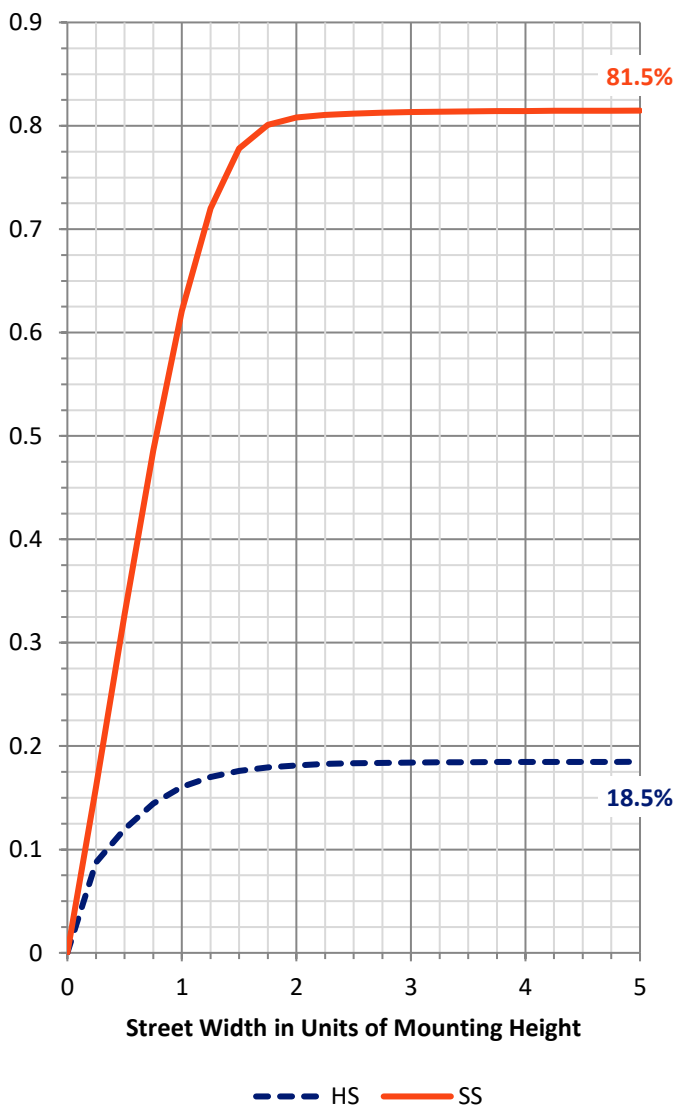
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3985.4	0.0	3985.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	17471.6	0.0	17471.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	21457.0	0.0	21457.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.9	2.3
10°-20°	1301.8	6.1
20°-30°	2281.9	10.6
30°-40°	3762.5	17.5
40°-50°	5475.0	25.5
50°-60°	6203.7	28.9
60°-70°	1773.8	8.3
70°-80°	137.7	0.6
80°-90°	28.7	0.1
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°	21457.0	100.0
0°-180°	21457.0	100.0

Coefficient of Utilization



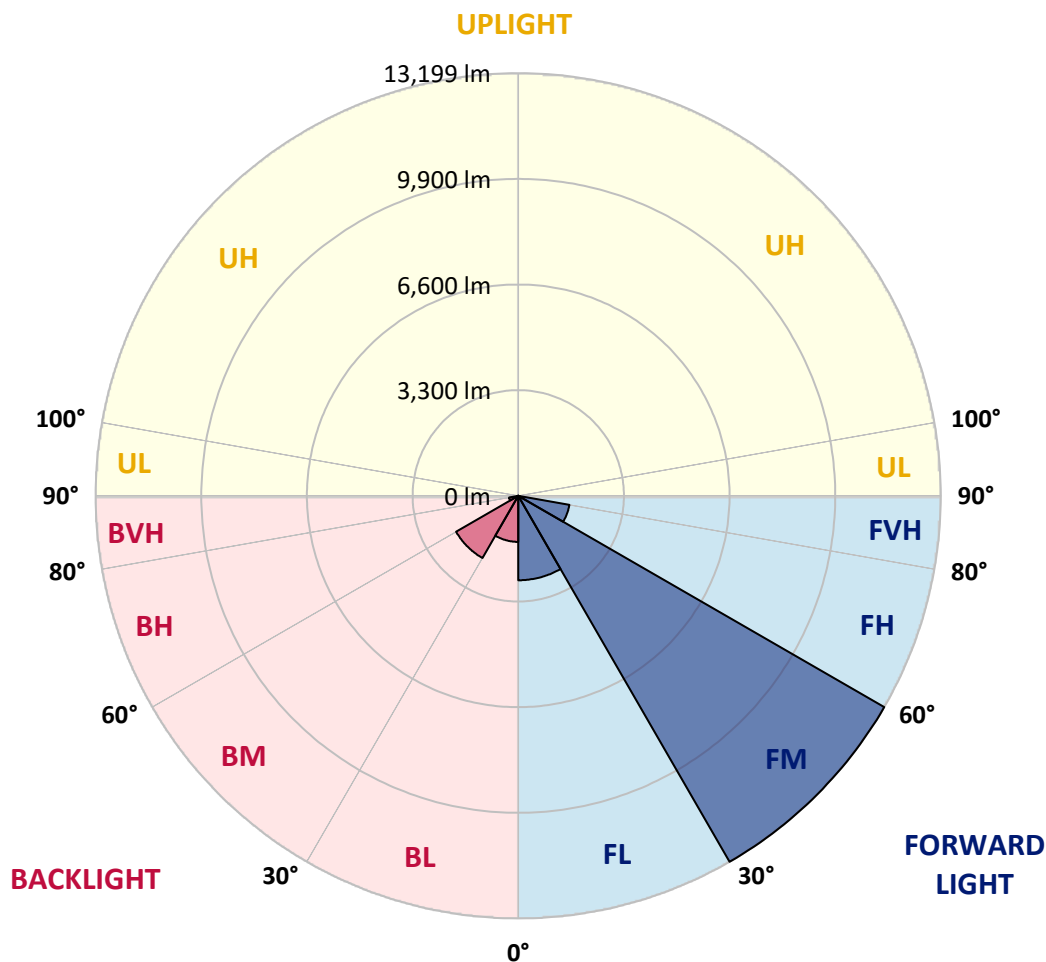
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2637.7	12.3			
FM (30°-60°)	13199.4	61.5			
FH (60°-80°)	1620.6	7.6			G1/1800
FVH (80°-90°)	14.0	0.1			G1/100
BL (0°-30°)	1437.9	6.7	B3/2500		
BM (30°-60°)	2241.8	10.4	B2/2500		
BH (60°-80°)	290.9	1.4	B1/500		G1/500
BVH (80°-90°)	14.7	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°	55°	65°	75°	78°	85°
0°	5516.6	5516.6	5516.6	5516.6	5516.6	5516.6	5516.6	5516.6	5516.6	5516.6	5516.6
2.5°	5186.7	5236.6	5244.2	5305.6	5301.8	5405.4	5436.0	5439.9	5508.9	5474.4	5562.6
5°	5040.9	5014.1	5002.5	5110.0	5140.6	5232.7	5309.4	5355.5	5497.4	5547.3	5639.4
7.5°	4910.5	4910.5	4918.1	5014.1	5002.5	5121.5	5202.0	5344.0	5551.1	5593.3	5704.6
10°	4783.9	4737.8	4795.4	4895.1	4979.5	5033.2	5202.0	5336.3	5578.0	5700.7	5854.2
12.5°	4718.7	4741.7	4749.3	4822.2	4914.3	5075.4	5167.5	5390.0	5769.8	5842.7	6007.7
15°	5129.1	5083.1	4971.9	4906.6	4983.4	5060.1	5290.3	5516.6	5869.5	5973.1	6157.3
17.5°	5604.8	5566.5	5474.4	5297.9	5125.3	5267.2	5447.6	5654.7	5977.0	6130.4	6402.8
20°	6226.3	6164.9	6072.9	5727.6	5578.0	5424.5	5616.4	5861.9	6153.4	6291.5	6571.6
22.5°	6966.7	6966.7	6759.6	6341.4	6030.7	5884.9	5965.5	6107.4	6349.1	6537.1	6813.3
25°	7737.8	7714.8	7526.8	7093.3	6567.8	6395.1	6487.2	6586.9	6652.2	6755.7	6939.9
27.5°	8620.2	8485.9	8248.1	7768.5	7304.3	6970.6	7070.3	6982.1	6901.5	6955.2	7219.9
30°	9218.6	9303.0	9000.0	8539.6	8102.3	7730.2	7749.3	7672.6	7304.3	7381.1	7538.3
32.5°	9840.1	9893.8	9725.0	9471.8	9034.5	8601.0	8443.7	8378.5	8102.3	8136.8	7983.4
35°	10358.0	10461.6	10312.0	10200.7	10074.1	9725.0	9291.5	9502.5	9057.5	8973.1	8574.1
37.5°	10833.7	10803.0	10979.5	10864.4	10837.6	10592.0	10116.3	10158.5	9859.3	9840.1	9379.8
40°	11259.6	11267.2	11508.9	11562.6	11455.2	11017.9	10327.3	10661.1	10902.8	10925.8	10335.0
42.5°	11612.5	11716.1	11923.2	12356.7	12195.6	11466.7	10546.0	10910.5	11808.1	11950.1	11240.4
45°	11919.4	12130.4	12387.4	12774.9	12682.8	12103.5	11090.8	11424.5	12774.9	13147.0	12092.0
47.5°	11938.6	12214.8	12494.8	13070.3	13185.4	12445.0	11654.7	12237.8	13542.2	13945.0	12713.5
50°	11861.9	12007.6	12567.7	13193.1	13453.9	13001.2	12445.0	12920.7	14286.4	14539.6	13028.1
52.5°	10952.7	11063.9	12187.9	13308.1	13937.3	13630.4	13492.3	13872.1	15046.0	15234.0	13323.5
55°	9130.4	9111.2	10657.3	12728.9	14159.8	14562.6	14478.2	14612.5	15924.5	16093.3	13396.4
57.5°	6245.5	6594.6	7929.6	10599.7	12797.9	14343.9	14432.2	14209.7	14900.2	14965.4	11677.7
60°	3368.3	3514.1	4588.2	7074.1	9744.2	11689.2	11919.4	11516.6	11462.9	11278.7	8336.3
62.5°	1338.9	1411.8	2021.7	3502.5	5309.4	7104.8	7599.7	7434.8	7081.8	6598.4	4315.8
65°	636.8	682.9	1005.1	1638.1	2355.5	2961.6	3456.5	3610.0	2662.4	2397.7	1423.3
67.5°	433.5	468.0	732.7	936.1	840.2	878.5	1143.2	1062.7	625.3	533.2	395.1
70°	329.9	352.9	587.0	636.8	376.0	264.7	295.4	276.2	257.0	260.9	257.0
72.5°	234.0	253.2	429.7	376.0	165.0	122.8	157.3	188.0	188.0	188.0	184.1
75°	141.9	161.1	249.4	145.8	65.2	65.2	99.7	126.6	134.3	138.1	130.4
77.5°	72.9	92.1	84.4	42.2	42.2	49.9	72.9	88.2	95.9	95.9	92.1
80°	15.3	15.3	15.3	23.0	42.2	53.7	72.9	80.6	92.1	92.1	84.4
82.5°	0.0	3.8	11.5	23.0	38.4	49.9	69.1	80.6	92.1	95.9	88.2
85°	0.0	3.8	7.7	15.3	26.9	30.7	26.9	23.0	23.0	23.0	23.0
87.5°	0.0	0.0	3.8	3.8	3.8	7.7	7.7	7.7	7.7	7.7	7.7
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°	5516.6	5516.6	5516.6	5516.6	5516.6	5516.6	5516.6	5516.6	5516.6	5516.6	5516.6
2.5°	5570.3	5581.8	5562.6	5558.8	5543.5	5589.5	5478.2	5451.4	5520.4	5455.2	5470.6
5°	5643.2	5670.1	5635.5	5578.0	5493.6	5363.2	5251.9	5106.1	5037.1	4987.2	4979.5
7.5°	5696.9	5716.1	5681.6	5497.4	5244.2	4914.3	4668.8	4488.5	4346.5	4304.3	4235.3
10°	5915.6	5919.4	5746.8	5340.1	4845.3	4411.8	4035.8	3759.6	3617.6	3529.4	3491.0
12.5°	6061.4	6053.7	5704.6	5029.4	4369.6	3794.1	3364.4	3030.7	2900.2	2858.0	2831.2
15°	6245.5	6203.3	5604.8	4711.0	3755.7	3134.3	2746.8	2516.6	2505.1	2478.3	2505.1
17.5°	6391.3	6272.4	5459.1	4131.7	3168.8	2581.8	2328.6	2344.0	2374.7	2401.5	2405.4
20°	6629.1	6383.6	5125.3	3625.3	2624.0	2213.5	2209.7	2278.8	2355.5	2386.2	2416.9
22.5°	6809.4	6429.6	4768.5	3084.4	2179.0	2063.9	2129.1	2232.7	2290.3	2321.0	2367.0
25°	6874.7	6303.0	4292.8	2543.5	1964.2	1994.9	2094.6	2163.7	2236.6	2271.1	2251.9
27.5°	6939.9	6237.8	3725.1	2094.6	1849.1	1948.8	2033.2	2102.3	2125.3	2171.3	2202.0
30°	7097.2	6011.5	3214.8	1810.7	1791.6	1918.2	1979.5	2002.6	2063.9	2090.8	2090.8
32.5°	7223.8	5923.3	2673.9	1676.5	1783.9	1933.5	1941.2	1941.2	1948.8	1929.7	1922.0
35°	7484.6	5620.2	2190.5	1595.9	1780.0	1937.3	1956.5	1891.3	1714.8	1645.8	1626.6
37.5°	7806.9	5424.5	1833.8	1576.7	1806.9	1983.4	2014.1	1768.5	1538.4	1427.1	1407.9
40°	8198.2	5286.4	1599.7	1569.0	1868.3	2090.8	1998.7	1672.6	1373.4	1212.3	1204.6
42.5°	8654.7	5159.8	1442.5	1565.2	1945.0	2202.0	1983.4	1592.1	1204.6	1097.2	1112.5
45°	9019.2	5090.8	1335.0	1538.4	1971.9	2267.3	1994.9	1450.1	1135.5	1066.5	1074.2
47.5°	9303.0	4945.0	1246.8	1492.3	1968.0	2290.3	1891.3	1392.6	1101.0	1120.2	1139.4
50°	9310.7	4749.3	1135.5	1392.6	1910.5	2248.1	1772.4	1338.9	1093.3	1173.9	1212.3
52.5°	9207.1	4473.1	1016.6	1250.6	1776.2	2102.3	1665.0	1315.9	1058.8	1051.1	1097.2
55°	8838.8	3955.2	817.1	1012.8	1500.0	1734.0	1569.0	1273.7	955.2	867.0	874.7
57.5°	7143.2	2835.0	602.3	725.1	1062.7	1269.8	1415.6	1254.5	859.3	736.6	740.4
60°	4423.3	1607.4	441.2	494.9	656.0	771.1	1147.1	1166.2	767.3	621.5	613.8
62.5°	2271.1	794.1	341.4	349.1	402.8	452.7	786.4	978.3	694.4	590.8	590.8
65°	759.6	391.3	299.2	268.5	268.5	280.1	475.7	679.0	587.0	494.9	494.9
67.5°	326.1	291.6	260.9	234.0	214.8	203.3	268.5	395.1	437.3	376.0	360.6
70°	253.2	245.5	226.3	195.7	168.8	153.5	157.3	203.3	249.4	241.7	234.0
72.5°	188.0	188.0	180.3	153.5	130.4	111.3	103.6	107.4	118.9	122.8	126.6
75°	130.4	134.3	134.3	118.9	95.9	80.6	69.1	57.5	46.0	38.4	34.5
77.5°	88.2	92.1	99.7	88.2	72.9	53.7	42.2	30.7	19.2	7.7	7.7
80°	76.7	88.2	95.9	88.2	76.7	57.5	42.2	23.0	11.5	0.0	0.0
82.5°	80.6	88.2	99.7	84.4	72.9	53.7	42.2	26.9	11.5	3.8	0.0
85°	19.2	19.2	23.0	26.9	34.5	38.4	30.7	19.2	11.5	3.8	0.0
87.5°	7.7	7.7	7.7	7.7	7.7	3.8	3.8	3.8	3.8	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)