

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: P534259

Luminaire Tested: **GALN-SA9D-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47645 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

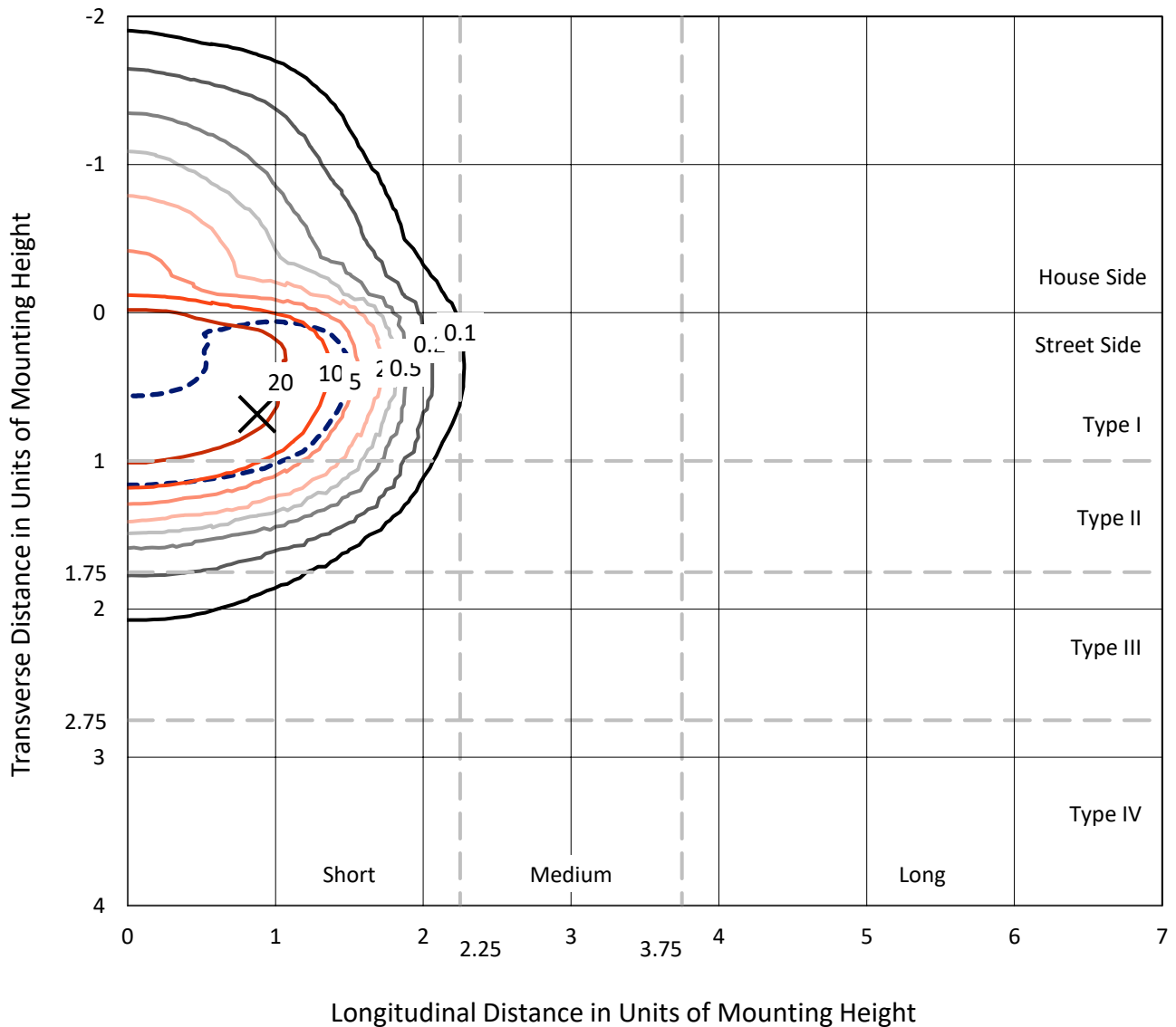
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

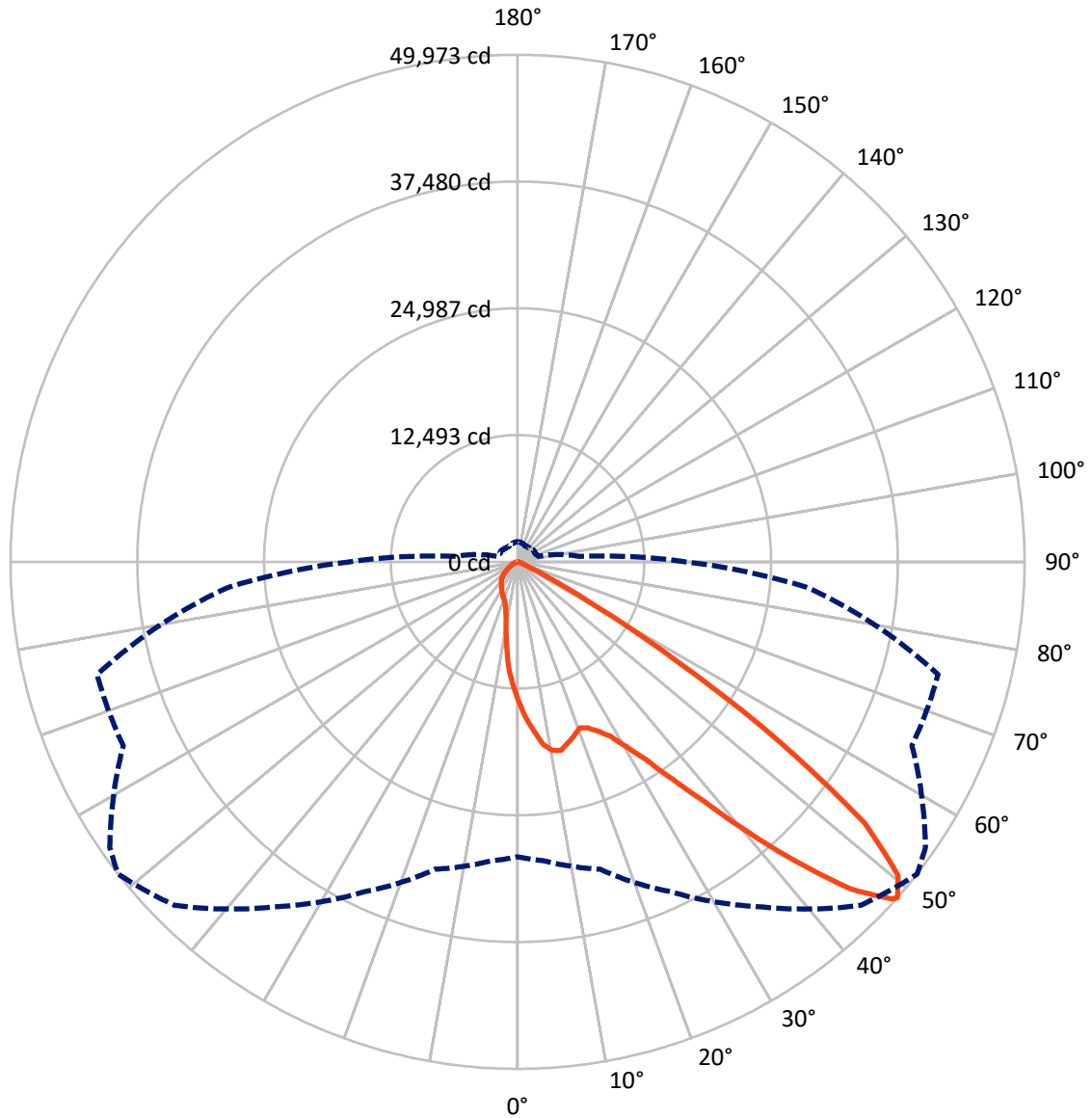
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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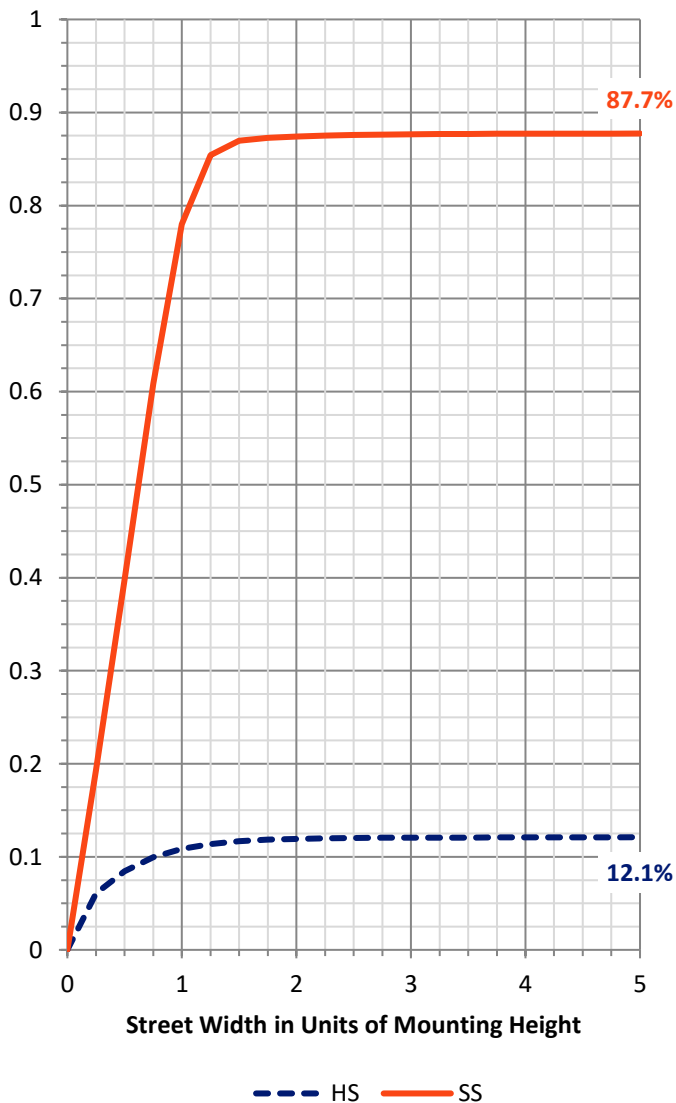
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5801.1	0.0	5801.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	41843.8	0.0	41843.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	47645.0	0.0	47645.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1259.4	2.6
10°-20°	3291.1	6.9
20°-30°	5619.3	11.8
30°-40°	10348.0	21.7
40°-50°	16070.4	33.7
50°-60°	9671.6	20.3
60°-70°	1118.6	2.3
70°-80°	216.5	0.5
80°-90°	50.1	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°	47645.0	100.0
0°-180°	47645.0	100.0

Coefficient of Utilization



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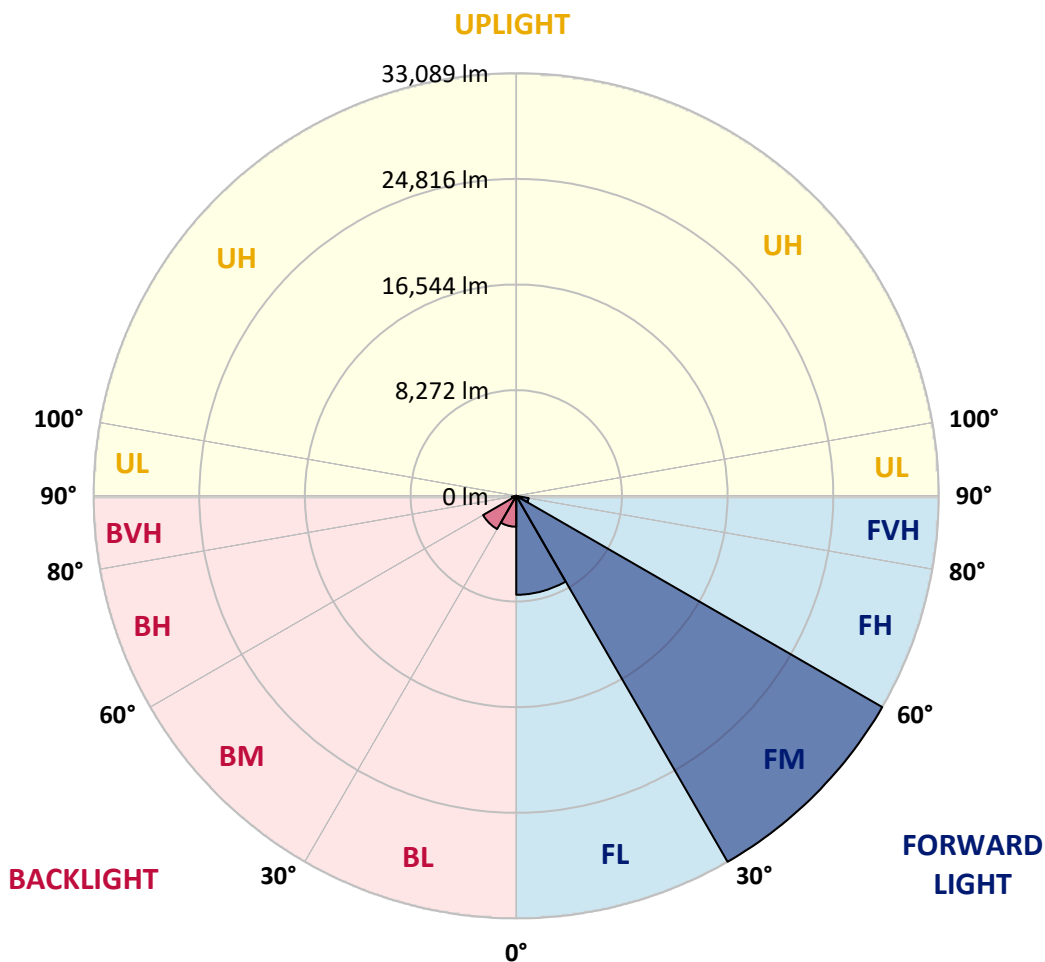
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7746.5	16.3			
FM (30°-60°)	33088.5	69.4			
FH (60°-80°)	985.0	2.1			G1/1800
FVH (80°-90°)	23.8	0.1			G1/100
BL (0°-30°)	2423.3	5.1	B3/2500		
BM (30°-60°)	3001.4	6.3	B3/5000		
BH (60°-80°)	350.1	0.7	B1/500		G1/500
BVH (80°-90°)	26.2	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°	52°	55°	65°	75°	85°
0°	13759.1	13759.1	13759.1	13759.1	13759.1	13759.1	13759.1	13759.1	13759.1	13759.1	13759.1
2.5°	16676.2	16294.2	16328.9	16078.9	15933.0	15696.9	15377.4	15314.9	14967.6	14495.3	14016.1
5°	18176.4	18086.1	18204.2	17843.1	17856.9	17468.0	16717.9	16731.8	15933.0	15162.1	14418.9
7.5°	18273.7	18065.3	18183.4	18502.9	18690.4	18621.0	18197.3	17829.2	17072.1	15940.0	14856.5
10°	16363.7	16759.6	16884.6	17412.4	18162.5	18954.3	18905.7	18926.6	18294.5	16815.1	15231.5
12.5°	15217.6	14953.7	15377.4	15696.9	16829.0	18364.0	19065.5	19218.3	19266.9	17662.5	15606.6
15°	14696.7	14696.7	14766.2	14856.5	15676.0	17092.9	18523.7	18968.2	20017.0	18773.8	16197.0
17.5°	15023.2	15009.3	15106.5	14919.0	15224.6	16315.0	18023.6	18530.7	20857.4	19864.2	16662.3
20°	16016.4	16065.0	16002.5	15460.7	15481.6	16301.1	17468.0	18266.7	21426.9	20808.8	17280.5
22.5°	17398.5	17426.3	17072.1	16481.7	16308.1	16710.9	17787.5	18398.7	21885.3	21940.9	17468.0
25°	18996.0	18884.9	18815.4	17982.0	17454.1	17801.4	18509.8	18864.0	22170.1	22913.3	18002.8
27.5°	21211.6	20989.4	20565.7	19822.5	19433.6	18940.4	19447.5	20030.9	22982.7	24274.6	18586.2
30°	24483.0	24288.5	23462.0	22503.5	21482.5	20996.3	21156.1	21475.6	24448.2	25851.2	19357.2
32.5°	29407.4	28997.6	27802.9	25976.3	24587.2	23246.7	23205.0	23545.3	25761.0	28032.1	20274.0
35°	34831.8	34706.8	32949.6	31067.3	28379.4	26309.6	26344.4	26525.0	28275.2	30893.7	21475.6
37.5°	38436.5	39124.1	38005.9	35984.8	33727.5	30768.7	30018.6	30081.1	31727.2	34283.1	23642.6
40°	41221.7	40638.3	40770.2	40297.9	38756.0	36741.8	35081.8	34755.4	35720.8	38033.7	25795.7
42.5°	40006.2	40034.0	40846.6	41964.9	42346.9	42201.0	40506.3	39888.1	39138.0	41103.6	27844.6
45°	36575.1	37290.5	38346.2	41305.0	43902.7	46340.5	46007.2	44979.2	41499.5	43534.5	29025.3
47.5°	31102.1	31074.3	32803.7	36651.5	42423.3	48132.5	49646.6	48924.3	43173.4	43263.7	28782.3
48°	29080.9	29581.0	31366.0	35894.5	41485.6	47868.6	49973.1	49063.2	42888.6	42902.5	28573.9
50°	21496.4	21406.1	23628.7	29185.1	37054.4	44979.2	48597.8	49306.3	42881.7	41075.8	27115.3
52.5°	11355.9	11744.9	13363.2	18350.1	26198.5	36811.3	42867.8	43972.1	41367.5	38089.3	25017.8
55°	4827.1	4361.8	5605.0	8286.0	14738.4	24594.1	31449.3	33908.1	34977.7	33706.6	21885.3
57.5°	1722.5	1882.2	2167.0	3118.5	6195.4	13460.4	18752.9	20662.9	24232.9	24733.0	14912.0
60°	1104.3	1125.2	1215.5	1430.8	2326.8	5188.3	8897.2	10418.3	12036.6	12425.5	6959.4
62.5°	854.3	861.2	902.9	937.6	1104.3	2014.2	3340.8	3958.9	4111.8	3535.3	1826.7
65°	715.4	722.3	736.2	736.2	784.8	944.6	1166.8	1284.9	1250.2	1236.3	1034.9
67.5°	548.7	562.6	590.4	590.4	618.2	576.5	645.9	687.6	777.9	944.6	882.1
70°	430.6	437.6	458.4	472.3	472.3	416.7	465.4	507.0	569.5	701.5	694.6
72.5°	333.4	347.3	361.2	361.2	340.3	284.8	333.4	368.1	409.8	486.2	472.3
75°	257.0	257.0	263.9	215.3	166.7	145.9	201.4	243.1	305.6	319.5	263.9
77.5°	69.5	76.4	69.5	62.5	69.5	104.2	132.0	152.8	194.5	194.5	173.6
80°	0.0	6.9	20.8	41.7	69.5	97.2	118.1	132.0	152.8	166.7	159.7
82.5°	0.0	6.9	20.8	41.7	62.5	76.4	104.2	111.1	125.0	145.9	145.9
85°	0.0	6.9	13.9	27.8	41.7	48.6	48.6	41.7	41.7	34.7	27.8
87.5°	0.0	0.0	6.9	13.9	13.9	20.8	20.8	20.8	20.8	20.8	20.8
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°	13759.1	13759.1	13759.1	13759.1	13759.1	13759.1	13759.1	13759.1	13759.1	13759.1	13759.1
2.5°	13828.5	13613.2	13286.8	12772.8	12279.7	11960.2	11654.6	11314.3	11126.7	11112.8	11008.7
5°	13995.2	13509.0	12731.1	11849.1	10904.5	10091.8	9272.3	8737.5	8258.2	7994.3	7945.7
7.5°	14085.5	13453.5	12196.3	10716.9	9105.6	7779.0	6862.2	6188.5	5924.5	5730.1	5723.1
10°	14273.1	13356.2	11397.6	9216.7	7223.3	5882.9	5250.8	4945.2	4799.4	4743.8	4660.4
12.5°	14412.0	13175.7	10578.0	7674.8	5709.2	4875.8	4597.9	4528.5	4535.4	4563.2	4528.5
15°	14606.4	13015.9	9473.7	6299.6	4792.4	4389.6	4389.6	4403.5	4500.7	4514.6	4507.6
17.5°	14592.5	12703.4	8334.6	5188.3	4236.8	4181.2	4202.0	4334.0	4396.5	4417.4	4368.7
20°	14759.2	12411.7	7160.8	4431.2	3924.2	4007.6	4146.5	4181.2	4257.6	4271.5	4215.9
22.5°	14710.6	11682.4	6070.4	3833.9	3688.1	3847.8	3986.7	4028.4	4007.6	3965.9	3958.9
25°	14620.3	11057.3	5070.2	3438.0	3514.4	3688.1	3820.0	3743.6	3702.0	3708.9	3715.9
27.5°	14460.6	10265.5	4243.7	3160.2	3278.3	3535.3	3528.3	3500.5	3542.2	3507.5	3542.2
30°	14432.8	9473.7	3563.1	2910.2	3104.6	3292.2	3306.1	3354.7	3403.3	3340.8	3403.3
32.5°	14474.5	8605.5	3076.9	2757.4	3000.5	3007.4	3160.2	3208.8	3174.1	3035.2	3049.1
35°	14794.0	7938.7	2722.6	2674.0	2833.8	2840.7	2986.6	2924.1	2771.3	2687.9	2736.5
37.5°	15467.7	7383.1	2556.0	2597.6	2611.5	2701.8	2708.8	2583.7	2597.6	2590.7	2618.5
40°	16328.9	6959.4	2437.9	2528.2	2514.3	2576.8	2326.8	2396.2	2458.7	2479.6	2493.4
42.5°	16919.3	6653.8	2361.5	2417.0	2389.3	2278.1	2139.2	2208.7	2257.3	2333.7	2347.6
45°	17183.2	6410.7	2271.2	2222.6	2222.6	2021.1	1965.6	1979.5	2090.6	2173.9	2160.1
47.5°	16752.6	6174.6	2111.4	1965.6	2014.2	1847.5	1785.0	1785.0	1903.1	2007.3	1986.4
48°	16585.9	6077.3	2118.4	1910.0	1944.7	1819.7	1757.2	1743.3	1875.3	1972.5	1972.5
50°	15759.4	5716.2	1937.8	1757.2	1687.8	1673.9	1632.2	1646.1	1729.4	1819.7	1819.7
52.5°	14148.0	4938.3	1639.1	1507.2	1382.2	1465.5	1486.3	1458.6	1500.2	1583.6	1576.6
55°	11807.4	3792.3	1312.7	1250.2	1153.0	1243.2	1284.9	1250.2	1208.5	1271.0	1271.0
57.5°	7563.7	2042.0	1048.8	1062.7	965.4	1055.7	1090.4	1007.1	930.7	979.3	972.4
60°	3410.3	1222.4	861.2	840.4	777.9	882.1	937.6	840.4	736.2	771.0	805.7
62.5°	1278.0	868.2	652.9	639.0	625.1	722.3	750.1	673.7	569.5	590.4	597.3
65°	937.6	764.0	520.9	472.3	500.1	569.5	555.6	479.2	409.8	409.8	423.7
67.5°	798.7	666.8	423.7	368.1	368.1	375.1	347.3	305.6	284.8	298.7	312.5
70°	625.1	527.9	333.4	284.8	257.0	229.2	201.4	194.5	173.6	194.5	187.5
72.5°	402.8	354.2	257.0	215.3	194.5	159.7	132.0	125.0	104.2	97.2	97.2
75°	215.3	215.3	201.4	173.6	152.8	125.0	104.2	83.3	55.6	41.7	41.7
77.5°	152.8	166.7	180.6	166.7	138.9	104.2	83.3	55.6	27.8	13.9	13.9
80°	145.9	166.7	180.6	159.7	138.9	104.2	76.4	41.7	20.8	6.9	6.9
82.5°	132.0	152.8	166.7	145.9	125.0	90.3	69.5	41.7	20.8	6.9	6.9
85°	27.8	34.7	41.7	41.7	48.6	62.5	48.6	34.7	13.9	6.9	6.9
87.5°	20.8	20.8	20.8	20.8	20.8	20.8	13.9	13.9	6.9	6.9	6.9
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)