

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: P533805

Luminaire Tested: **GALN-SA9B-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31071 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

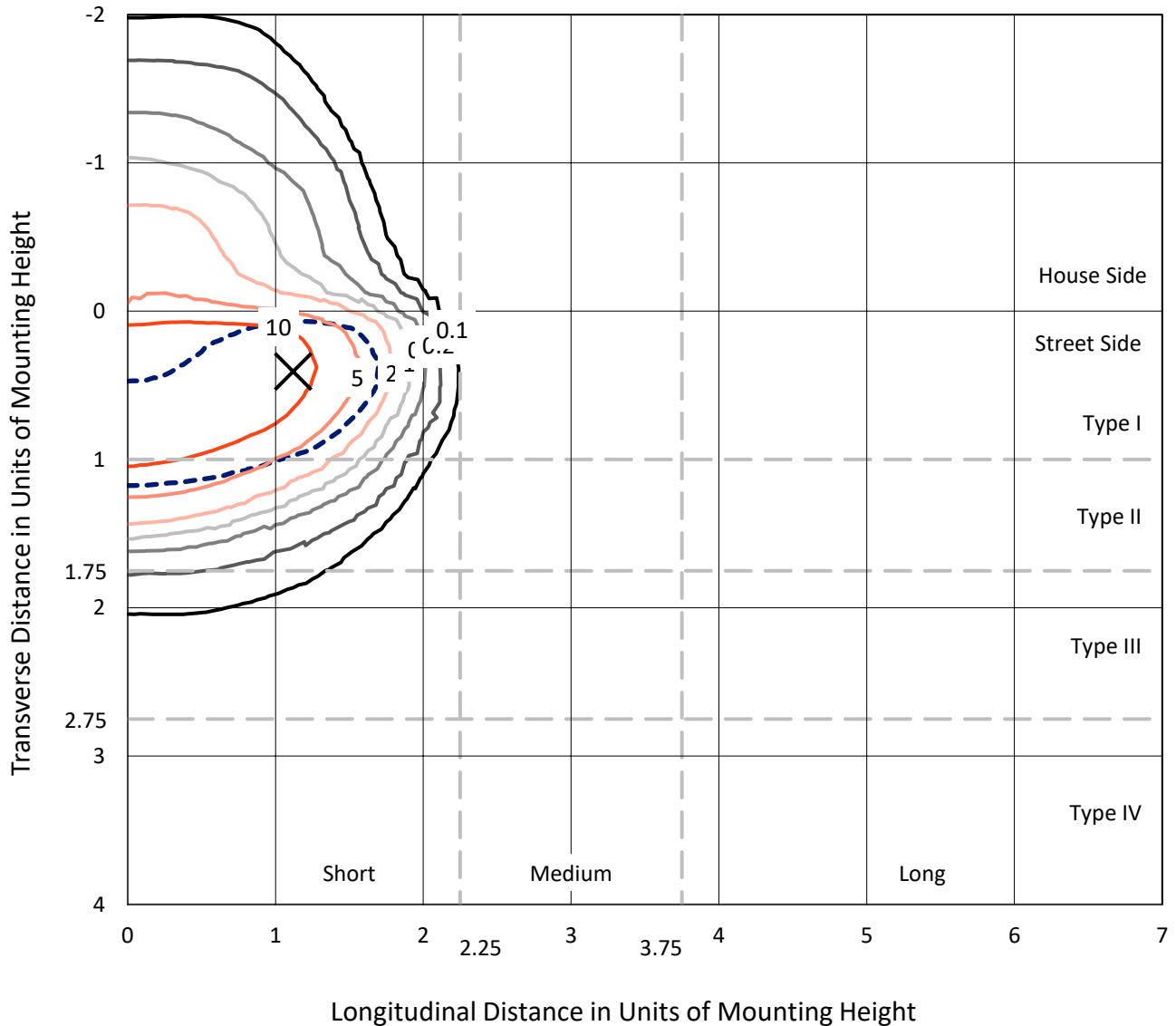
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

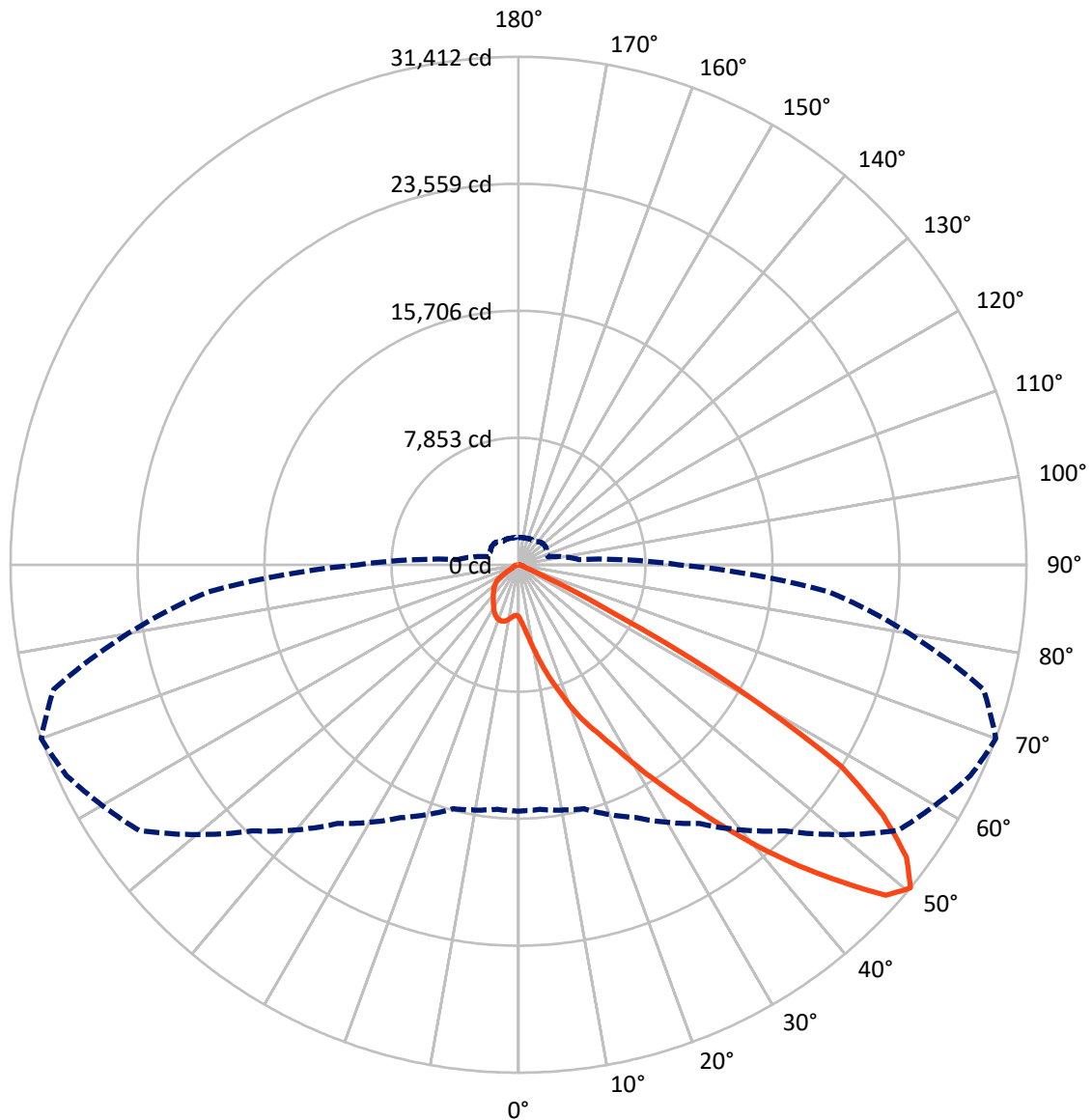
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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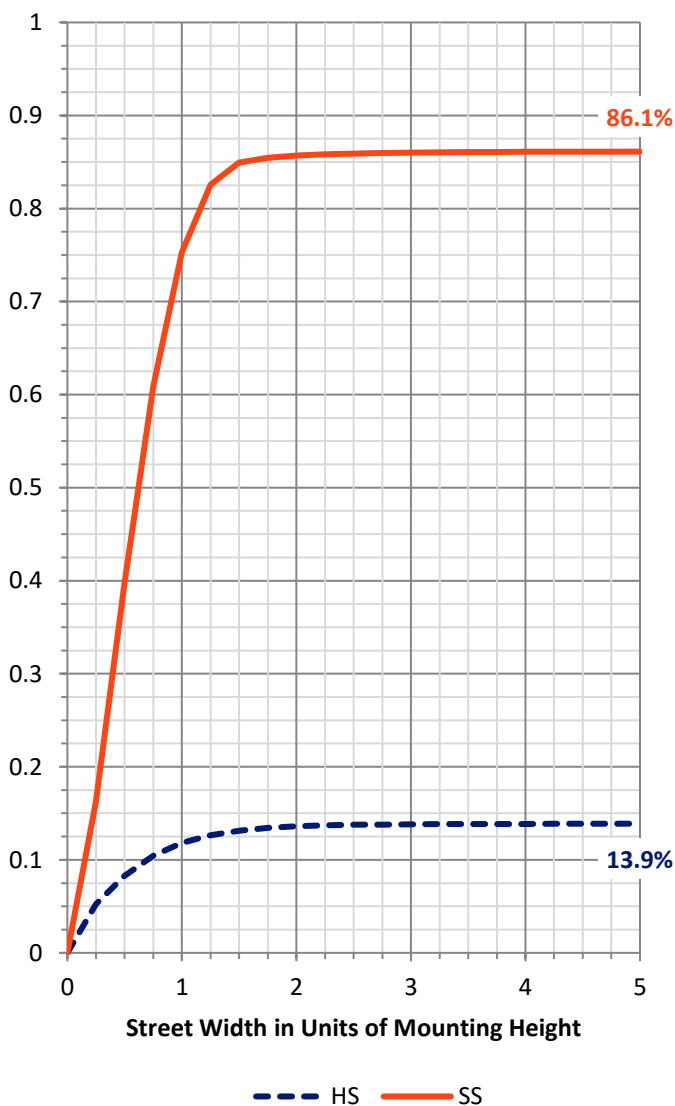
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4339.3	0.0	4339.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	26731.7	0.0	26731.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	31071.0	0.0	31071.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.5	1.3
10°-20°	1810.3	5.8
20°-30°	3797.7	12.2
30°-40°	6545.9	21.1
40°-50°	9566.8	30.8
50°-60°	7451.0	24.0
60°-70°	1262.4	4.1
70°-80°	173.4	0.6
80°-90°	44.9	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°	31071.0	100.0
0°-180°	31071.0	100.0

Coefficient of Utilization



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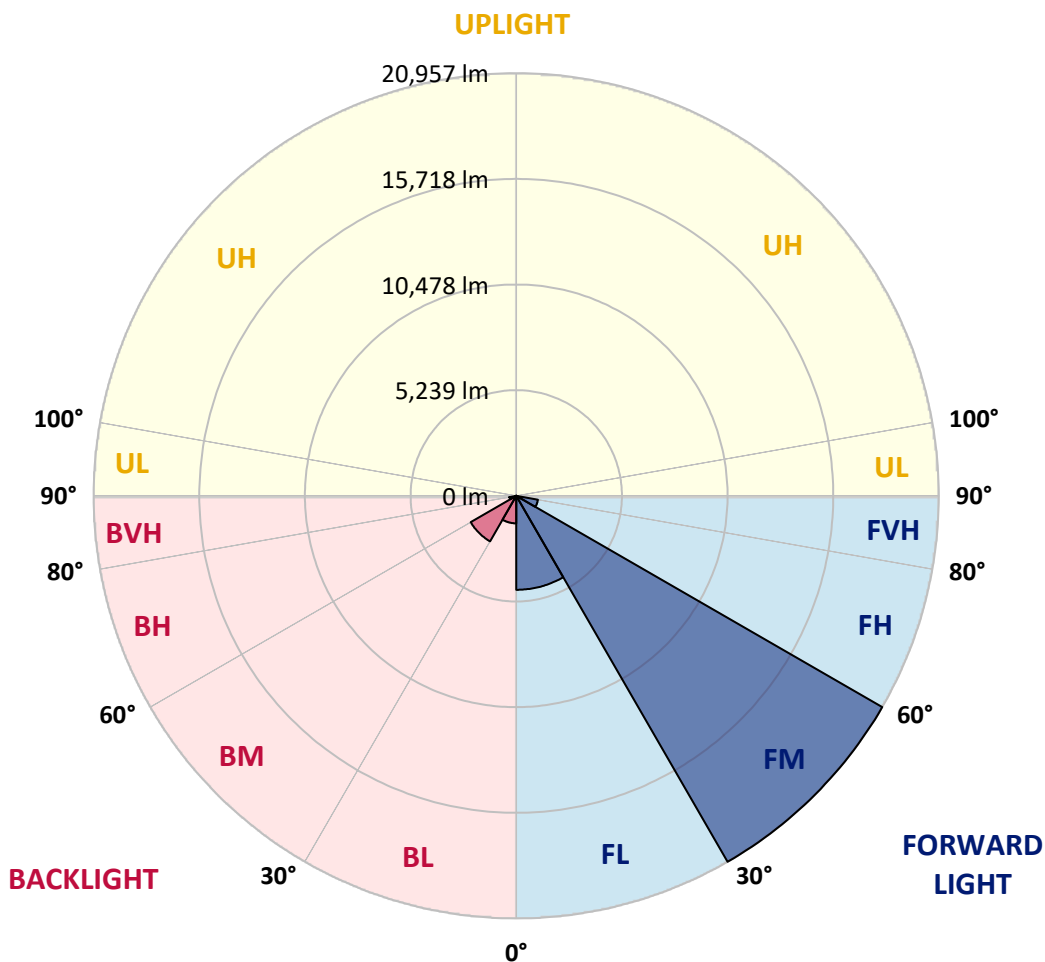
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4661.0	15.0			
FM (30°-60°)	20956.9	67.4			
FH (60°-80°)	1093.1	3.5			G1/1800
FVH (80°-90°)	20.8	0.1			G1/100
BL (0°-30°)	1365.5	4.4	B3/2500		
BM (30°-60°)	2606.9	8.4	B3/5000		
BH (60°-80°)	342.8	1.1	B1/500		G1/500
BVH (80°-90°)	24.2	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3
2.5°	4214.5	4183.8	4117.4	3994.8	3943.7	3821.1	3749.6	3611.7	3524.9	3427.8	3320.5
5°	5936.1	5777.7	5680.6	5542.7	5139.1	4888.8	4475.0	4122.5	3959.1	3780.3	3535.1
7.5°	7713.8	7611.6	7478.8	7182.5	6906.7	6385.6	5675.5	4899.0	4567.0	4260.5	3775.2
10°	9185.1	8899.0	8883.7	8664.0	8362.6	7739.4	6886.2	5920.7	5328.1	4878.6	4117.4
12.5°	10211.9	9951.3	10068.8	10043.3	9762.3	9190.2	8204.2	6927.1	6309.0	5609.1	4469.9
15°	11146.7	11039.4	11003.7	10973.0	10860.6	10436.6	9552.9	8153.1	7259.2	6416.3	4868.4
17.5°	12061.1	11785.3	11918.1	11943.6	11933.4	11550.3	10722.7	9317.9	8265.5	7269.4	5287.3
20°	12873.4	12898.9	12720.1	12684.4	12653.7	12638.4	11831.2	10472.4	9501.8	8163.4	5833.9
22.5°	13915.5	13736.7	13895.1	13792.9	13593.7	13471.1	12852.9	11494.1	10574.6	9241.2	6390.7
25°	15146.6	15289.7	14916.8	14875.9	14656.2	14232.2	13675.4	12638.4	11606.5	10242.5	6993.5
27.5°	16663.9	16413.6	16316.5	16091.7	15693.3	15514.5	14860.6	13818.4	12852.9	11294.9	7575.9
30°	17966.5	17900.1	17414.8	17149.2	16801.8	16796.7	15882.3	15417.4	14477.4	12944.9	8377.9
32.5°	19029.1	18737.9	18559.1	18375.2	18094.2	18170.9	17399.5	17154.3	16209.2	14477.4	9323.0
35°	19739.2	19529.7	19422.4	19141.5	19059.7	19402.0	19080.2	18978.0	18201.5	16633.2	10431.5
37.5°	19963.9	20030.4	20009.9	19657.4	19831.1	20755.8	21169.6	20903.9	20495.2	18906.5	11632.0
40°	20163.2	20209.2	20107.0	20520.8	21016.3	22068.6	23565.4	23126.1	22972.8	21210.4	13302.5
42.5°	20275.6	20239.8	20239.8	20955.0	21705.9	23820.9	25879.6	25588.4	25470.9	23662.5	15233.5
45°	19790.3	19442.9	19815.8	20786.4	22298.5	24684.2	27728.8	28132.4	27963.8	26579.4	17491.4
47.5°	17976.7	18191.3	18400.8	19698.3	21578.2	24418.5	28862.9	30237.1	30548.7	29031.5	18972.9
50°	15233.5	15187.5	15621.7	17256.5	19539.9	23274.2	28643.3	30845.0	31412.1	29767.1	19284.5
52.5°	11080.3	11417.5	11887.4	13511.9	16219.4	20311.3	25808.1	29276.7	30032.8	28862.9	19080.2
55°	6452.0	6079.1	7136.5	8510.7	11065.0	15320.3	21818.3	25951.1	27350.8	27218.0	18048.3
57.5°	2584.9	2503.2	2865.9	3862.0	5772.6	9496.7	15866.9	21322.8	23565.4	24929.4	15861.8
60°	1134.1	1108.5	1302.7	1573.4	2360.1	4378.0	8679.3	13261.6	15601.3	17419.9	10916.8
62.5°	817.4	807.1	904.2	1001.3	1246.5	1905.5	3647.5	5343.5	6661.5	8045.9	4888.8
65°	659.0	684.5	750.9	802.0	919.5	1057.5	1287.3	1486.6	1823.7	1890.1	1077.9
67.5°	536.4	556.8	618.1	674.3	694.8	572.2	592.6	521.1	521.1	464.9	372.9
70°	393.4	398.5	470.0	536.4	429.1	229.9	403.6	403.6	362.7	347.4	316.7
72.5°	291.2	296.3	352.5	332.1	168.6	143.0	296.3	326.9	296.3	281.0	255.4
75°	214.6	219.7	183.9	76.6	71.5	92.0	173.7	224.8	214.6	209.4	194.1
77.5°	40.9	30.7	25.5	35.8	51.1	76.6	112.4	137.9	143.0	153.3	143.0
80°	5.1	5.1	15.3	30.7	56.2	81.7	117.5	132.8	137.9	143.0	132.8
82.5°	0.0	5.1	15.3	30.7	56.2	76.6	102.2	117.5	127.7	132.8	127.7
85°	0.0	5.1	10.2	25.5	46.0	56.2	51.1	35.8	30.7	35.8	25.5
87.5°	0.0	0.0	5.1	5.1	10.2	10.2	10.2	10.2	10.2	10.2	10.2
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°	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3
2.5°	3259.2	3238.8	3167.3	3090.6	3024.2	3054.9	3024.2	2998.7	3008.9	2998.7	2988.5
5°	3438.0	3346.1	3192.8	3126.4	3070.2	3065.1	3049.8	3044.7	3049.8	3049.8	3003.8
7.5°	3606.6	3458.4	3295.0	3223.5	3157.0	3162.2	3126.4	3126.4	3121.3	3095.7	3085.5
10°	3862.0	3662.8	3453.3	3325.6	3243.9	3228.6	3192.8	3157.0	3157.0	3157.0	3106.0
12.5°	4143.0	3892.7	3606.6	3458.4	3361.4	3284.8	3228.6	3218.3	3162.2	3151.9	3126.4
15°	4388.2	4071.5	3708.8	3504.4	3381.8	3279.6	3192.8	3136.6	3111.1	3095.7	3075.3
17.5°	4628.3	4224.7	3765.0	3504.4	3371.6	3254.1	3162.2	3111.1	3049.8	3060.0	3019.1
20°	4950.1	4388.2	3780.3	3438.0	3274.5	3162.2	3039.5	3014.0	2978.2	2947.6	2957.8
22.5°	5261.7	4505.7	3734.3	3356.3	3121.3	2988.5	2927.2	2896.5	2881.2	2855.6	2819.9
25°	5542.7	4633.4	3662.8	3208.1	2957.8	2860.8	2804.6	2799.4	2763.7	2763.7	2697.3
27.5°	5828.8	4679.4	3540.2	3034.4	2814.8	2758.6	2733.0	2722.8	2707.5	2671.7	2625.8
30°	6155.7	4694.7	3361.4	2855.6	2687.1	2625.8	2661.5	2687.1	2620.7	2554.2	2574.7
32.5°	6426.5	4658.9	3146.8	2687.1	2595.1	2564.5	2636.0	2661.5	2584.9	2513.4	2477.6
35°	6753.4	4572.1	2937.4	2554.2	2503.2	2564.5	2625.8	2625.8	2472.5	2385.7	2365.2
37.5°	7248.9	4475.0	2743.3	2441.9	2406.1	2533.8	2615.5	2559.3	2319.3	2212.0	2186.4
40°	7780.2	4413.7	2554.2	2329.5	2355.0	2482.7	2528.7	2355.0	2109.8	2043.4	2023.0
42.5°	8551.6	4291.1	2385.7	2232.4	2309.0	2411.2	2411.2	2099.6	2007.6	1971.9	1966.8
45°	9512.0	4204.3	2237.5	2150.7	2242.6	2268.2	2186.4	1966.8	1900.4	1890.1	1895.2
47.5°	9982.0	4035.7	2084.3	2053.6	2120.0	2125.1	1910.6	1859.5	1803.3	1788.0	1777.8
50°	9910.5	3734.3	1885.0	1925.9	2017.9	1966.8	1742.0	1752.2	1701.1	1696.0	1670.5
52.5°	9409.8	3259.2	1685.8	1782.9	1885.0	1736.9	1604.1	1593.8	1593.8	1527.4	1501.9
55°	8342.2	2625.8	1445.7	1568.3	1690.9	1461.0	1425.3	1415.0	1389.5	1328.2	1312.9
57.5°	6605.3	1925.9	1088.1	1220.9	1435.5	1241.4	1236.3	1190.3	1123.9	1077.9	1077.9
60°	3928.4	1108.5	684.5	745.8	950.2	1006.4	1118.8	1098.3	985.9	914.4	894.0
62.5°	1793.1	572.2	434.2	444.4	510.8	653.9	878.7	1016.6	858.2	735.6	725.4
65°	602.8	424.0	357.6	342.3	352.5	393.4	526.2	720.3	684.5	567.0	546.6
67.5°	367.8	378.0	337.2	311.6	311.6	306.5	301.4	326.9	403.6	393.4	398.5
70°	316.7	347.4	311.6	281.0	270.7	255.4	214.6	178.8	153.3	178.8	189.0
72.5°	255.4	275.9	265.6	240.1	214.6	194.1	153.3	117.5	86.8	76.6	76.6
75°	189.0	204.3	214.6	183.9	163.5	137.9	112.4	76.6	46.0	30.7	30.7
77.5°	137.9	153.3	158.4	143.0	122.6	97.1	71.5	51.1	25.5	10.2	10.2
80°	117.5	137.9	153.3	143.0	127.7	92.0	66.4	35.8	20.4	5.1	5.1
82.5°	112.4	137.9	153.3	137.9	122.6	86.8	66.4	40.9	15.3	5.1	5.1
85°	25.5	35.8	46.0	56.2	66.4	66.4	51.1	30.7	15.3	5.1	5.1
87.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	5.1	5.1	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)