

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: P534025

Luminaire Tested: **GALN-SA9C-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534025
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-SA9C-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA 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: 43300 lumens
Efficiency: N/A
Efficacy: 90.0 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

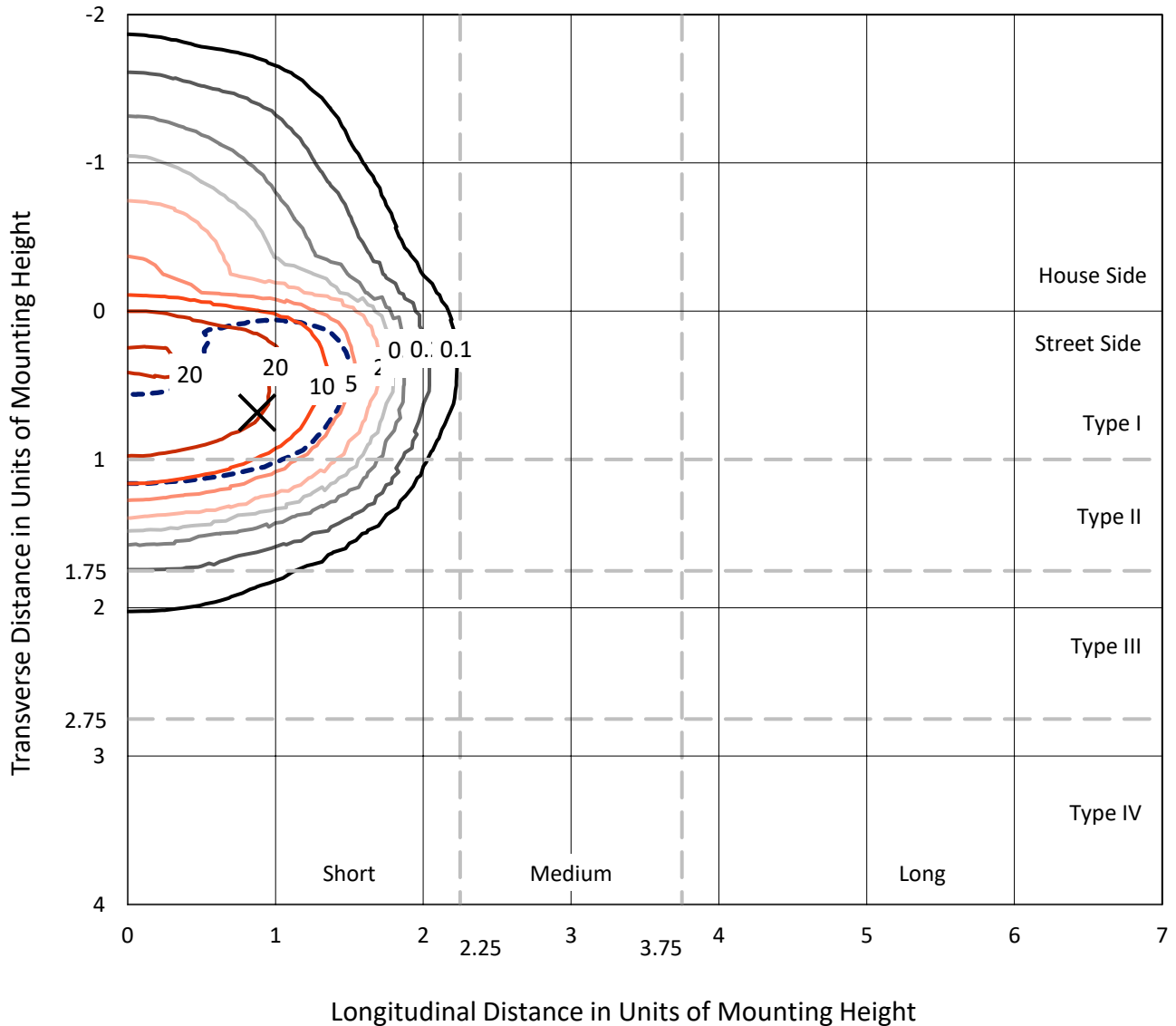
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

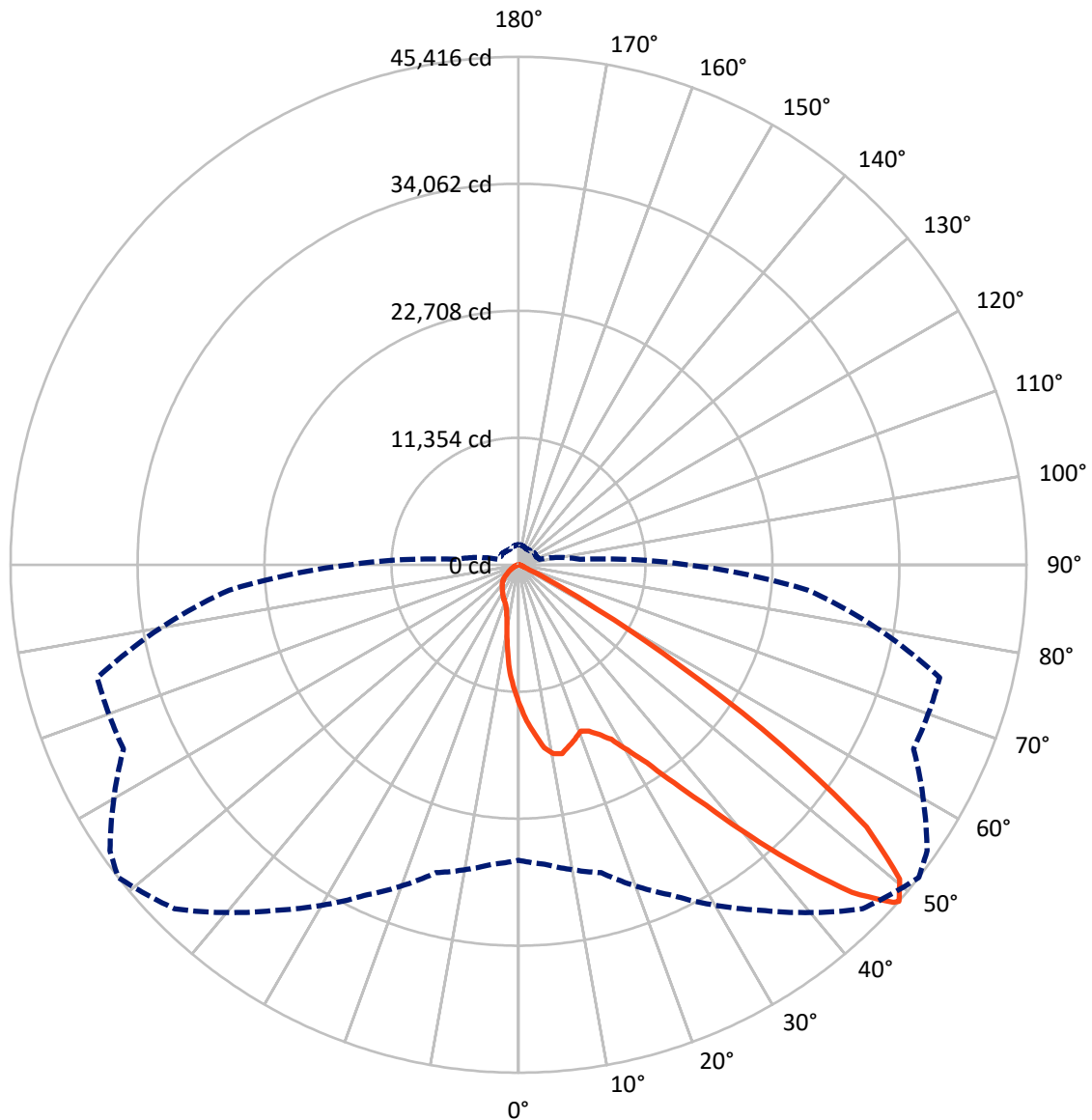
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28 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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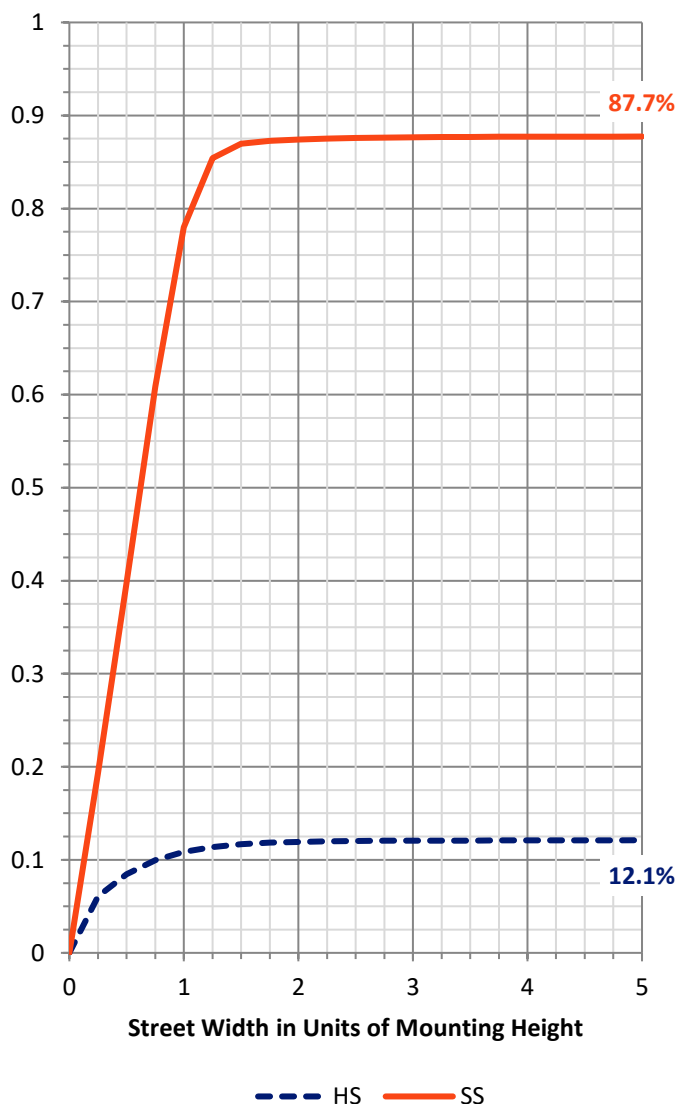
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5272.1	0.0	5272.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	38027.9	0.0	38027.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	43300.0	0.0	43300.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1144.5	2.6
10°-20°	2991.0	6.9
20°-30°	5106.9	11.8
30°-40°	9404.3	21.7
40°-50°	14604.8	33.7
50°-60°	8789.6	20.3
60°-70°	1016.6	2.3
70°-80°	196.8	0.5
80°-90°	45.5	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°	43300.0	100.0
0°-180°	43300.0	100.0

Coefficient of Utilization

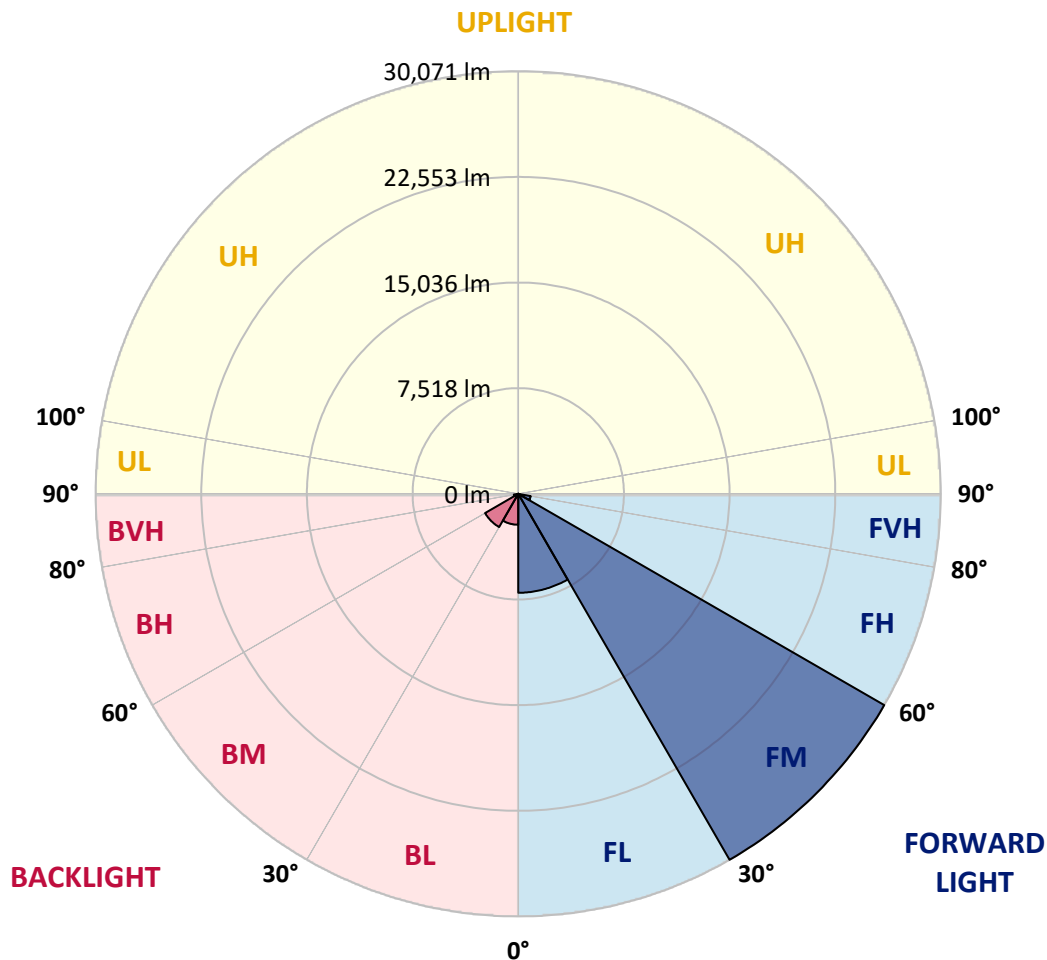


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7040.0	16.3			
FM (30°-60°)	30071.0	69.4			
FH (60°-80°)	895.2	2.1			G1/1800
FVH (80°-90°)	21.7	0.1			G1/100
BL (0°-30°)	2202.3	5.1	B3/2500		
BM (30°-60°)	2727.7	6.3	B3/5000		
BH (60°-80°)	318.2	0.7	B1/500		G1/500
BVH (80°-90°)	23.9	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°	12504.3	12504.3	12504.3	12504.3	12504.3	12504.3	12504.3	12504.3	12504.3	12504.3	12504.3
2.5°	15155.4	14808.2	14839.8	14612.6	14480.0	14265.4	13975.0	13918.2	13602.6	13173.4	12737.9
5°	16518.8	16436.8	16544.1	16215.9	16228.5	15875.0	15193.3	15205.9	14480.0	13779.4	13104.0
7.5°	16607.2	16417.8	16525.1	16815.5	16985.9	16922.8	16537.8	16203.2	15515.2	14486.3	13501.6
10°	14871.4	15231.2	15344.8	15824.5	16506.2	17225.8	17181.6	17200.5	16626.1	15281.7	13842.5
12.5°	13829.9	13590.0	13975.0	14265.4	15294.3	16689.3	17326.8	17465.7	17509.8	16051.7	14183.3
15°	13356.5	13356.5	13419.6	13501.6	14246.5	15534.1	16834.4	17238.4	18191.5	17061.7	14719.9
17.5°	13653.1	13640.5	13728.9	13558.4	13836.2	14827.2	16380.0	16840.8	18955.3	18052.7	15142.8
20°	14555.8	14599.9	14543.1	14050.8	14069.7	14814.6	15875.0	16600.9	19472.9	18911.1	15704.6
22.5°	15811.9	15837.1	15515.2	14978.7	14820.9	15187.0	16165.4	16720.8	19889.5	19940.0	15875.0
25°	17263.7	17162.7	17099.5	16342.1	15862.4	16178.0	16821.8	17143.7	20148.3	20823.7	16361.0
27.5°	19277.2	19075.2	18690.2	18014.8	17661.3	17213.2	17674.0	18204.2	20886.8	22060.9	16891.2
30°	22250.2	22073.5	21322.4	20451.3	19523.4	19081.6	19226.7	19517.1	22218.7	23493.7	17591.9
32.5°	26725.5	26353.1	25267.4	23607.3	22344.9	21126.7	21088.8	21398.1	23411.7	25475.7	18425.1
35°	31655.3	31541.7	29944.7	28234.1	25791.3	23910.3	23941.9	24106.0	25696.7	28076.3	19517.1
37.5°	34931.3	35556.2	34540.0	32703.1	30651.7	27962.7	27281.0	27337.8	28833.8	31156.7	21486.5
40°	37462.5	36932.2	37052.2	36623.0	35221.7	33391.1	31882.5	31585.9	32463.3	34565.2	23443.2
42.5°	36357.8	36383.1	37121.6	38137.9	38485.0	38352.5	36812.3	36250.5	35568.8	37355.2	25305.3
45°	33239.7	33889.8	34849.2	37538.2	39898.9	42114.5	41811.5	40877.3	37715.0	39564.4	26378.4
47.5°	28265.7	28240.4	29812.2	33309.1	38554.5	43743.0	45119.1	44462.6	39236.2	39318.2	26157.4
48°	26428.9	26883.3	28505.6	32621.1	37702.3	43503.2	45415.7	44588.9	38977.4	38990.0	25968.1
50°	19536.0	19454.0	21473.9	26523.6	33675.2	40877.3	44165.9	44809.8	38971.1	37329.9	24642.5
52.5°	10320.3	10673.8	12144.5	16676.6	23809.3	33454.3	38958.4	39962.1	37595.0	34615.7	22736.3
55°	4386.9	3964.0	5093.9	7530.4	13394.3	22351.2	28581.3	30815.8	31787.9	30632.7	19889.5
57.5°	1565.4	1710.6	1969.4	2834.1	5630.4	12232.9	17042.7	18778.6	22023.0	22477.5	13552.1
60°	1003.6	1022.6	1104.6	1300.3	2114.6	4715.2	8085.8	9468.2	10938.9	11292.4	6324.7
62.5°	776.4	782.7	820.6	852.1	1003.6	1830.5	3036.1	3597.9	3736.8	3212.9	1660.1
65°	650.1	656.5	669.1	669.1	713.3	858.4	1060.4	1167.7	1136.2	1123.6	940.5
67.5°	498.7	511.3	536.5	536.5	561.8	523.9	587.0	624.9	707.0	858.4	801.6
70°	391.4	397.7	416.6	429.2	429.2	378.7	422.9	460.8	517.6	637.5	631.2
72.5°	303.0	315.6	328.2	328.2	309.3	258.8	303.0	334.5	372.4	441.8	429.2
75°	233.5	233.5	239.9	195.7	151.5	132.6	183.1	220.9	277.7	290.4	239.9
77.5°	63.1	69.4	63.1	56.8	63.1	94.7	119.9	138.9	176.7	176.7	157.8
80°	0.0	6.3	18.9	37.9	63.1	88.4	107.3	119.9	138.9	151.5	145.2
82.5°	0.0	6.3	18.9	37.9	56.8	69.4	94.7	101.0	113.6	132.6	132.6
85°	0.0	6.3	12.6	25.2	37.9	44.2	44.2	37.9	37.9	31.6	25.2
87.5°	0.0	0.0	6.3	12.6	12.6	18.9	18.9	18.9	18.9	18.9	18.9
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°	12504.3	12504.3	12504.3	12504.3	12504.3	12504.3	12504.3	12504.3	12504.3	12504.3	12504.3
2.5°	12567.4	12371.8	12075.1	11608.0	11159.8	10869.5	10591.7	10282.5	10112.0	10099.4	10004.7
5°	12718.9	12277.1	11570.1	10768.5	9910.0	9171.5	8426.7	7940.7	7505.1	7265.3	7221.1
7.5°	12801.0	12226.6	11084.1	9739.6	8275.2	7069.6	6236.4	5624.1	5384.2	5207.5	5201.2
10°	12971.4	12138.2	10358.2	8376.2	6564.6	5346.4	4772.0	4494.2	4361.7	4311.2	4235.4
12.5°	13097.7	11974.1	9613.4	6974.9	5188.6	4431.1	4178.6	4115.5	4121.8	4147.1	4115.5
15°	13274.4	11828.9	8609.7	5725.1	4355.4	3989.3	3989.3	4001.9	4090.3	4102.9	4096.6
17.5°	13261.8	11544.9	7574.6	4715.2	3850.4	3799.9	3818.8	3938.8	3995.6	4014.5	3970.3
20°	13413.3	11279.8	6507.8	4027.1	3566.4	3642.1	3768.3	3799.9	3869.3	3882.0	3831.5
22.5°	13369.1	10617.0	5516.8	3484.3	3351.7	3496.9	3623.2	3661.0	3642.1	3604.2	3597.9
25°	13287.0	10048.9	4607.9	3124.5	3193.9	3351.7	3471.7	3402.2	3364.4	3370.7	3377.0
27.5°	13141.8	9329.3	3856.7	2872.0	2979.3	3212.9	3206.6	3181.3	3219.2	3187.6	3219.2
30°	13116.6	8609.7	3238.1	2644.8	2821.5	2991.9	3004.6	3048.8	3092.9	3036.1	3092.9
32.5°	13154.5	7820.7	2796.3	2505.9	2726.8	2733.2	2872.0	2916.2	2884.6	2758.4	2771.0
35°	13444.8	7214.8	2474.4	2430.2	2575.3	2581.7	2714.2	2657.4	2518.5	2442.8	2487.0
37.5°	14057.1	6709.8	2322.9	2360.7	2373.4	2455.4	2461.7	2348.1	2360.7	2354.4	2379.7
40°	14839.8	6324.7	2215.6	2297.6	2285.0	2341.8	2114.6	2177.7	2234.5	2253.4	2266.1
42.5°	15376.3	6047.0	2146.1	2196.6	2171.4	2070.4	1944.1	2007.3	2051.4	2120.9	2133.5
45°	15616.2	5826.1	2064.1	2019.9	2019.9	1836.8	1786.3	1799.0	1899.9	1975.7	1963.1
47.5°	15224.8	5611.5	1918.9	1786.3	1830.5	1679.0	1622.2	1622.2	1729.5	1824.2	1805.3
48°	15073.4	5523.1	1925.2	1735.8	1767.4	1653.8	1597.0	1584.3	1704.3	1792.6	1792.6
50°	14322.2	5194.9	1761.1	1597.0	1533.8	1521.2	1483.3	1496.0	1571.7	1653.8	1653.8
52.5°	12857.8	4487.9	1489.7	1369.7	1256.1	1331.9	1350.8	1325.5	1363.4	1439.2	1432.9
55°	10730.6	3446.4	1193.0	1136.2	1047.8	1129.9	1167.7	1136.2	1098.3	1155.1	1155.1
57.5°	6873.9	1855.8	953.1	965.8	877.4	959.4	991.0	915.3	845.8	890.0	883.7
60°	3099.3	1110.9	782.7	763.8	707.0	801.6	852.1	763.8	669.1	700.6	732.2
62.5°	1161.4	789.0	593.3	580.7	568.1	656.5	681.7	612.3	517.6	536.5	542.8
65°	852.1	694.3	473.4	429.2	454.5	517.6	505.0	435.5	372.4	372.4	385.0
67.5°	725.9	606.0	385.0	334.5	334.5	340.9	315.6	277.7	258.8	271.4	284.0
70°	568.1	479.7	303.0	258.8	233.5	208.3	183.1	176.7	157.8	176.7	170.4
72.5°	366.1	321.9	233.5	195.7	176.7	145.2	119.9	113.6	94.7	88.4	88.4
75°	195.7	195.7	183.1	157.8	138.9	113.6	94.7	75.7	50.5	37.9	37.9
77.5°	138.9	151.5	164.1	151.5	126.2	94.7	75.7	50.5	25.2	12.6	12.6
80°	132.6	151.5	164.1	145.2	126.2	94.7	69.4	37.9	18.9	6.3	6.3
82.5°	119.9	138.9	151.5	132.6	113.6	82.1	63.1	37.9	18.9	6.3	6.3
85°	25.2	31.6	37.9	37.9	44.2	56.8	44.2	31.6	12.6	6.3	6.3
87.5°	18.9	18.9	18.9	18.9	18.9	18.9	12.6	12.6	6.3	6.3	6.3
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)