

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: P533792

Luminaire Tested: **GALN-SA9B-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
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-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42392 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

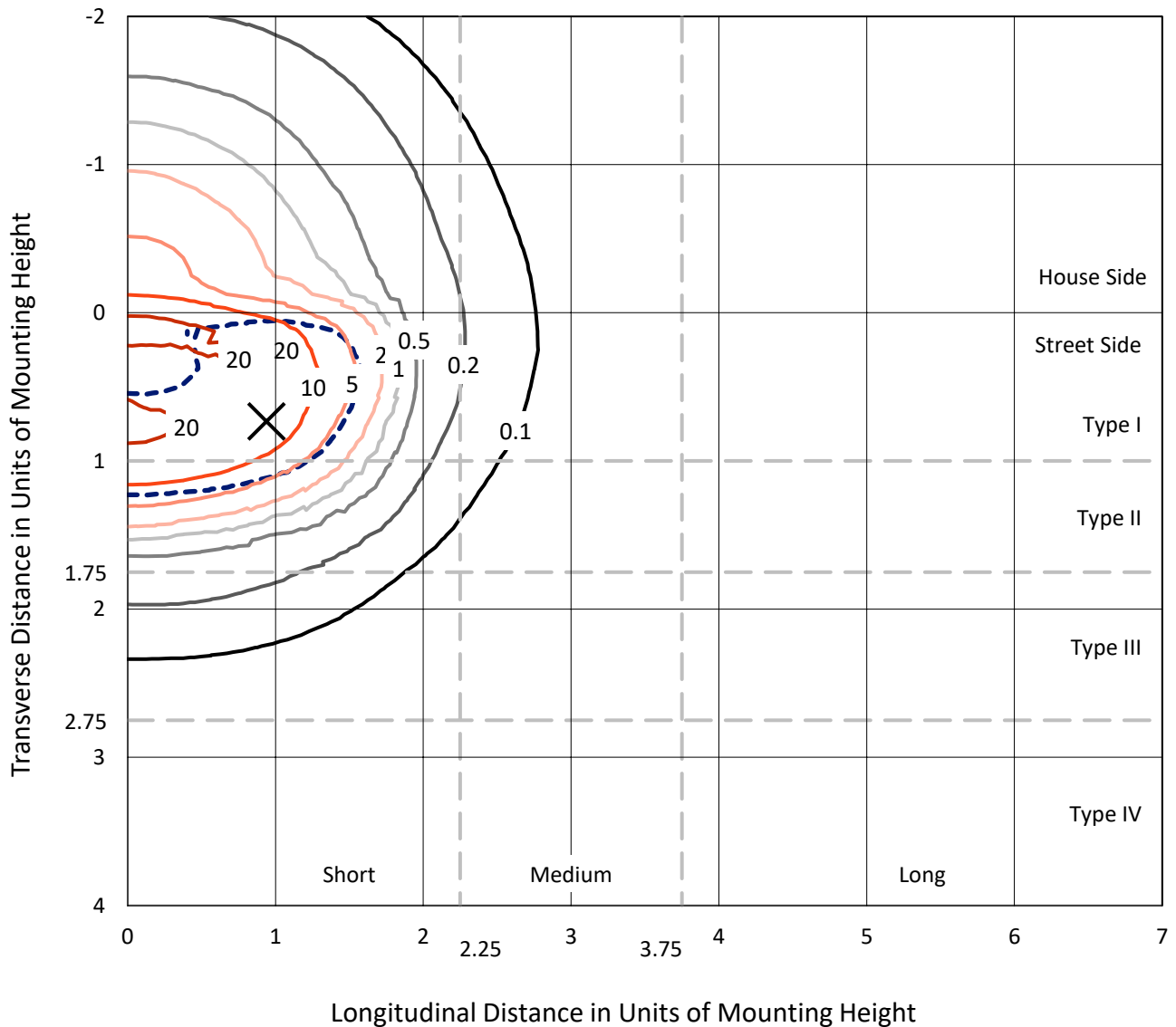
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

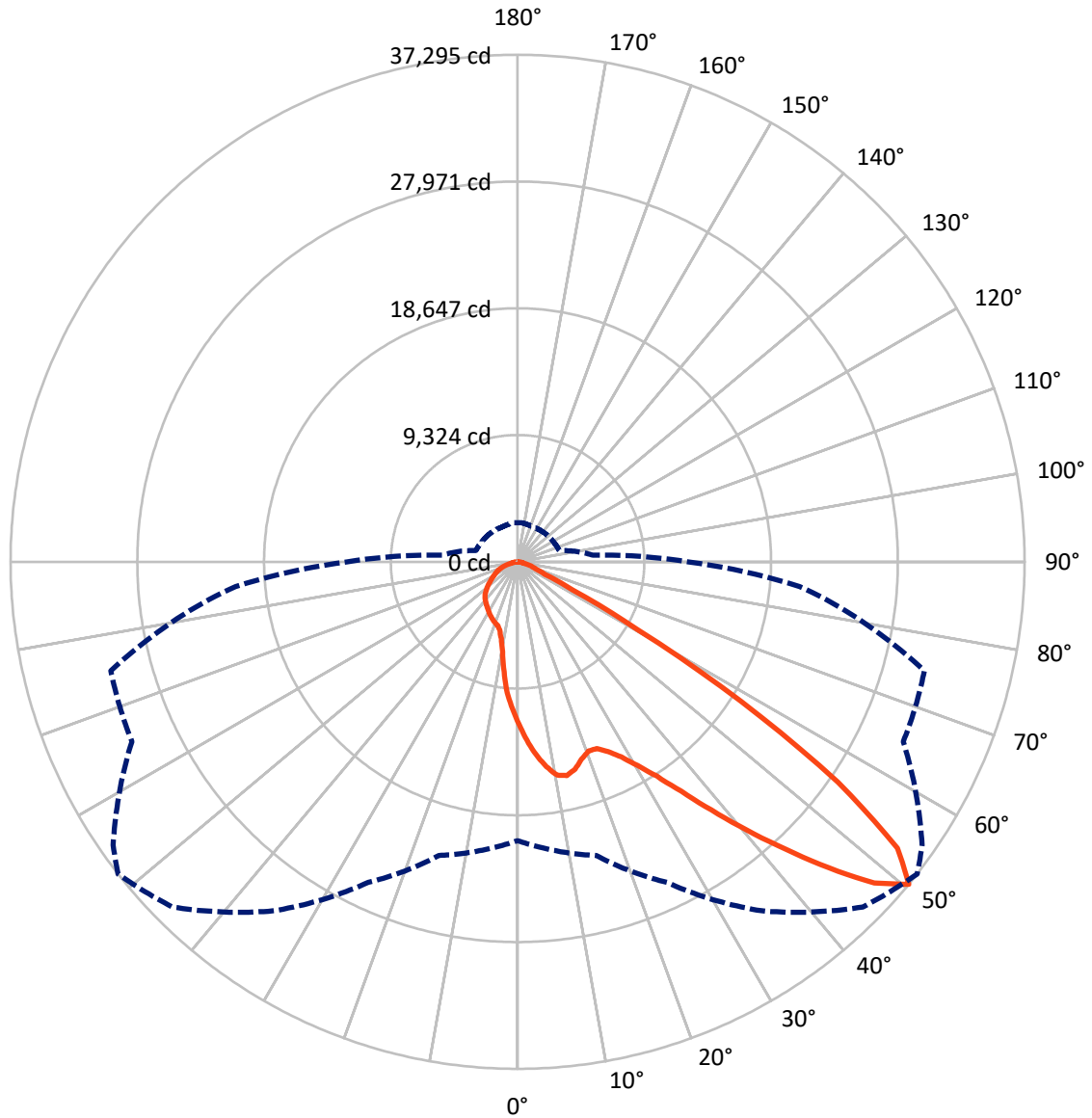
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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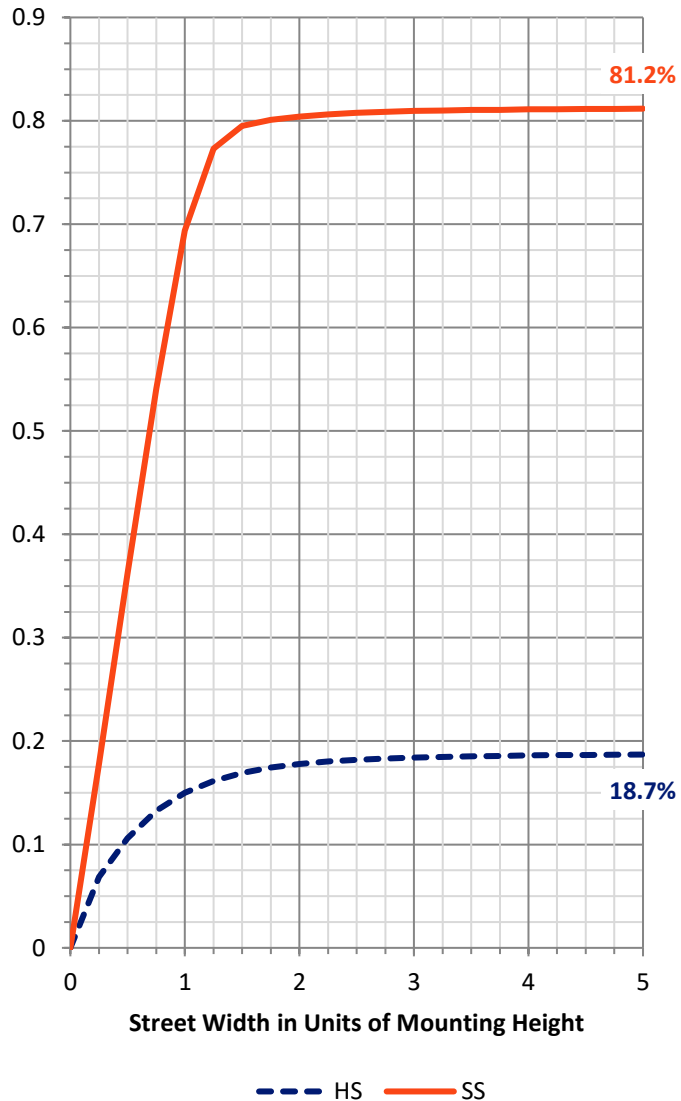
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7968.7	0.0	7968.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	34423.3	0.0	34423.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	42392.0	0.0	42392.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1101.4	2.6
10°-20°	2952.0	7.0
20°-30°	4972.5	11.7
30°-40°	8344.3	19.7
40°-50°	12764.8	30.1
50°-60°	9306.5	22.0
60°-70°	2071.2	4.9
70°-80°	747.0	1.8
80°-90°	132.2	0.3
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°	42392.0	100.0
0°-180°	42392.0	100.0

Coefficient of Utilization

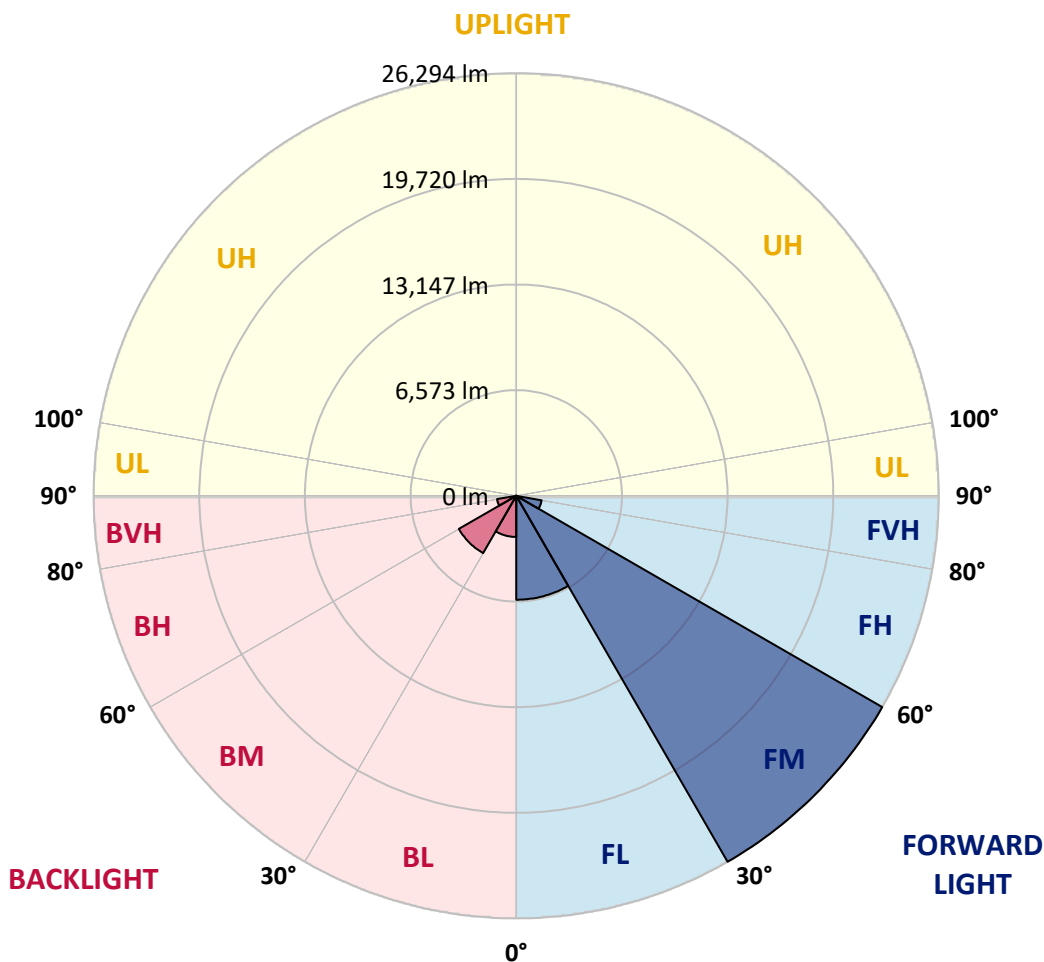


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6466.2	15.3			
FM (30°-60°)	26293.7	62.0			
FH (60°-80°)	1604.1	3.8			G1/1800
FVH (80°-90°)	59.3	0.1			G1/100
BL (0°-30°)	2559.7	6.0	B4/5000		
BM (30°-60°)	4121.9	9.7	B3/5000		
BH (60°-80°)	1214.1	2.9	B3/2500		G3/2500
BVH (80°-90°)	73.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	11949.6	11949.6	11949.6	11949.6	11949.6	11949.6	11949.6	11949.6	11949.6	11949.6	11949.6
2.5°	14069.8	13799.0	13829.7	13635.5	13426.1	13364.8	13150.2	12945.8	12792.6	12465.6	12164.2
5°	15377.6	15295.9	15173.3	15020.0	14861.6	14473.4	14253.7	13998.3	13436.3	12930.5	12429.8
7.5°	15566.7	15551.3	15617.8	15617.8	15674.0	15525.8	15214.2	15035.3	14437.6	13615.1	12685.3
10°	14238.4	14284.3	14606.2	15025.1	15607.5	16011.1	15960.0	15914.1	15260.1	14136.2	12986.7
12.5°	13180.8	13078.7	13267.7	13625.3	14498.9	15474.7	16133.8	16138.9	15970.3	14968.9	13206.4
15°	12583.1	12654.6	12705.7	12874.3	13533.3	14662.4	15822.1	16164.4	16905.2	15556.5	13553.8
17.5°	12966.3	12726.1	12715.9	12756.8	13094.0	13942.1	15244.8	15832.3	17416.1	16312.6	13982.9
20°	13466.9	13461.8	13318.8	13267.7	13262.6	14018.7	14866.8	15663.7	17686.8	17293.5	14417.2
22.5°	14345.7	14345.7	14110.6	13998.3	13758.1	14376.3	14917.8	15459.4	18136.4	17967.8	14626.6
25°	15817.0	15576.9	15173.3	14897.4	14759.5	14979.2	15459.4	15944.7	18529.8	18683.1	15060.9
27.5°	17176.0	16797.9	16598.7	16123.5	15939.6	15811.9	16251.3	16741.7	18989.6	19796.8	15295.9
30°	18718.8	18652.4	18294.8	17681.7	17227.0	16992.0	17395.6	17881.0	19832.6	20936.1	15837.4
32.5°	21477.6	20874.8	20389.4	19638.4	18897.6	18397.0	18795.5	19117.3	21232.4	22126.4	16430.1
35°	24456.1	24261.9	23424.1	22070.2	20936.1	20486.5	20721.5	20961.6	22862.1	23945.2	17426.3
37.5°	27383.4	27117.8	26428.1	25288.8	23909.4	22994.9	23163.5	23444.5	24691.1	26397.4	18642.2
40°	29488.3	29161.3	28813.9	28645.3	27276.2	26024.5	25927.4	25998.9	27163.8	28696.4	19990.9
42.5°	29641.6	30045.2	30152.4	30831.9	30510.1	29483.2	28885.4	28900.8	29524.0	30969.9	21355.0
45°	29319.7	28946.7	29738.6	31593.1	32655.8	33136.0	32129.6	32001.8	30985.2	32287.9	22034.5
47.5°	25942.7	26044.9	27383.4	30315.9	33386.3	35532.1	35297.1	34873.0	31766.8	32242.0	21927.2
50°	20506.9	21125.1	22366.5	26019.4	31342.8	35910.1	37294.6	36313.7	31301.9	30975.0	20833.9
52.5°	13656.0	13911.4	14728.8	19444.3	25202.0	32098.9	34995.6	35220.4	30872.8	29314.6	19449.4
55°	6079.5	6059.1	7208.6	10156.4	15811.9	24425.4	28594.2	29963.4	29222.6	27623.6	18100.7
57.5°	2574.9	2661.7	3131.7	4388.5	7775.7	14739.0	19372.8	20573.3	22473.8	22683.3	13885.9
60°	1742.1	1752.3	1880.1	2196.8	3254.3	6922.5	10161.5	11602.2	12961.2	12869.2	7367.0
62.5°	1369.2	1404.9	1502.0	1629.7	1931.1	3141.9	4546.9	5349.0	5435.8	4572.4	2794.5
65°	1169.9	1175.0	1272.1	1379.4	1512.2	1829.0	2191.7	2232.6	2258.1	2176.4	2053.8
67.5°	965.6	975.8	1052.4	1175.0	1297.6	1399.8	1502.0	1553.1	1670.6	1900.5	1869.8
70°	766.3	781.7	848.1	950.2	1062.6	1123.9	1251.7	1297.6	1404.9	1583.7	1655.3
72.5°	582.4	587.5	643.7	715.2	817.4	878.7	986.0	1037.1	1108.6	1261.9	1328.3
75°	418.9	434.3	475.1	510.9	526.2	567.1	669.3	725.5	827.6	894.0	899.2
77.5°	219.7	229.9	240.1	240.1	291.2	367.8	434.3	464.9	536.4	587.5	562.0
80°	86.9	92.0	117.5	158.4	204.4	265.7	311.6	327.0	388.3	418.9	434.3
82.5°	51.1	56.2	76.6	112.4	148.2	189.0	224.8	240.1	281.0	316.7	327.0
85°	25.5	30.7	46.0	71.5	97.1	117.5	112.4	107.3	107.3	102.2	107.3
87.5°	10.2	10.2	15.3	15.3	15.3	20.4	25.5	25.5	25.5	30.7	30.7
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°	11949.6	11949.6	11949.6	11949.6	11949.6	11949.6	11949.6	11949.6	11949.6	11949.6	11949.6
2.5°	11964.9	11760.6	11571.5	11224.1	10846.1	10738.8	10299.4	10141.1	10028.7	9895.8	9855.0
5°	12026.2	11755.5	11147.5	10447.6	9890.7	9175.5	8705.5	8199.7	7831.9	7739.9	7714.4
7.5°	12154.0	11689.1	10641.7	9584.2	8444.9	7474.2	6733.5	6335.0	5982.5	5962.0	5926.3
10°	12297.0	11489.8	10090.0	8429.6	6973.6	6074.4	5630.0	5456.3	5369.4	5349.0	5338.7
12.5°	12414.5	11448.9	9471.8	7305.7	5931.4	5389.8	5257.0	5241.7	5277.4	5287.7	5308.1
15°	12465.6	11285.5	8725.9	6299.2	5282.6	5083.3	5139.5	5200.8	5226.4	5292.8	5241.7
17.5°	12562.7	11076.0	7806.3	5502.2	4919.8	4955.6	5052.7	5124.2	5165.0	5211.0	5144.6
20°	12613.8	10887.0	6942.9	5027.1	4792.1	4858.5	4991.3	5047.5	5098.6	5119.1	5042.4
22.5°	12567.8	10498.7	6181.7	4643.9	4669.5	4756.3	4873.8	4935.1	4904.5	4822.8	4776.8
25°	12445.2	9952.0	5389.8	4398.7	4495.8	4649.1	4741.0	4695.0	4638.8	4592.9	4577.5
27.5°	12440.1	9282.8	4817.6	4173.9	4347.6	4557.1	4526.4	4485.6	4511.1	4475.4	4434.5
30°	12465.6	8634.0	4347.6	4046.2	4240.3	4342.5	4378.3	4337.4	4368.1	4301.7	4322.1
32.5°	12332.8	8000.5	4041.1	3898.1	4112.6	4107.5	4225.0	4255.7	4184.1	4046.2	4066.6
35°	12389.0	7489.6	3780.5	3831.6	3969.6	3969.6	4061.5	4025.8	3836.7	3755.0	3775.4
37.5°	12777.2	6988.9	3652.8	3739.7	3831.6	3872.5	3841.9	3688.6	3642.6	3642.6	3652.8
40°	13145.1	6559.8	3576.2	3719.2	3703.9	3729.5	3504.7	3520.0	3520.0	3525.1	3499.6
42.5°	13472.0	6268.6	3514.9	3596.6	3622.2	3489.3	3351.4	3336.1	3371.8	3366.7	3346.3
45°	13589.5	6028.4	3428.0	3458.7	3479.1	3259.4	3193.0	3162.4	3203.2	3218.6	3239.0
47.5°	13140.0	5829.2	3331.0	3269.7	3228.8	3085.7	2998.9	2942.7	2993.8	3080.6	3101.1
50°	12562.7	5568.6	3177.7	3060.2	2973.4	2912.0	2850.7	2794.5	2830.3	2891.6	2876.3
52.5°	11709.5	5159.9	2983.6	2861.0	2712.8	2728.1	2671.9	2641.3	2661.7	2661.7	2646.4
55°	10493.6	4240.3	2656.6	2569.8	2447.1	2488.0	2498.2	2457.4	2416.5	2452.2	2421.6
57.5°	7162.6	2993.8	2370.5	2370.5	2247.9	2304.1	2299.0	2201.9	2104.8	2115.1	2094.6
60°	4143.3	2385.8	2186.6	2166.2	2038.4	2084.4	2094.6	2028.2	1880.1	1890.3	1869.8
62.5°	2355.2	2038.4	1910.7	1880.1	1854.5	1895.4	1895.4	1808.5	1680.8	1691.0	1670.6
65°	2002.7	1890.3	1706.4	1701.2	1691.0	1701.2	1660.4	1568.4	1456.0	1410.0	1415.2
67.5°	1818.8	1747.2	1568.4	1522.4	1491.8	1486.7	1410.0	1323.2	1272.1	1231.2	1226.1
70°	1594.0	1537.8	1404.9	1343.6	1313.0	1241.5	1164.8	1108.6	1037.1	1016.7	1037.1
72.5°	1261.9	1256.8	1205.7	1139.3	1072.9	1016.7	950.2	873.6	807.2	791.9	756.1
75°	873.6	883.8	894.0	883.8	827.6	756.1	679.5	618.2	536.4	490.4	480.2
77.5°	572.2	587.5	602.8	582.4	546.6	480.2	429.1	352.5	291.2	255.4	250.3
80°	418.9	439.4	449.6	434.3	393.4	342.3	286.1	224.8	178.8	148.2	148.2
82.5°	321.9	342.3	352.5	327.0	286.1	245.2	204.4	158.4	122.6	97.1	92.0
85°	112.4	107.3	127.7	132.8	158.4	148.2	122.6	92.0	71.5	51.1	46.0
87.5°	30.7	30.7	35.8	35.8	30.7	25.5	25.5	25.5	20.4	15.3	15.3
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)