

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: P528695

Luminaire Tested: **GALN-SA3D-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528695
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-SA3D-740-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 17228 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

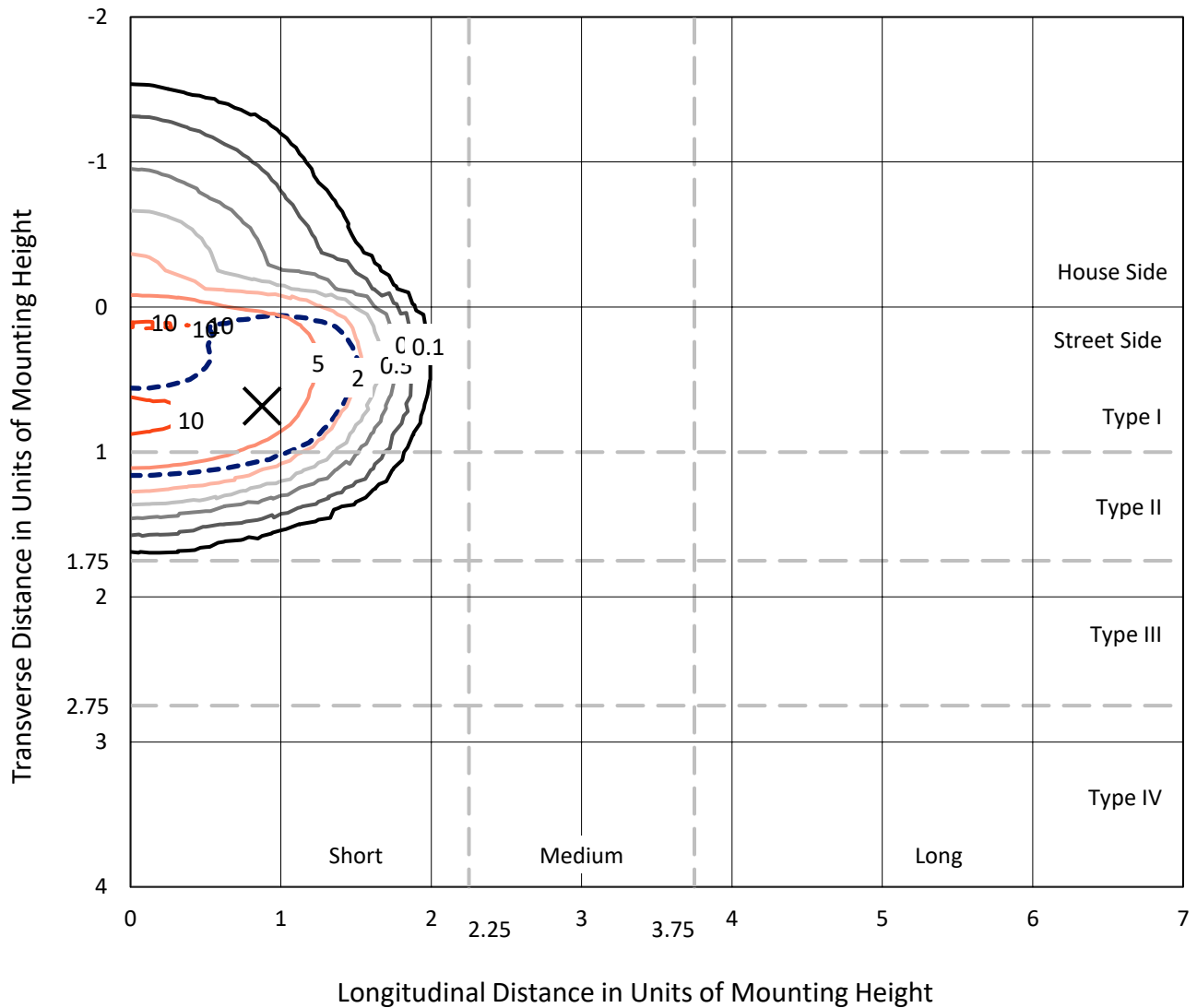
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

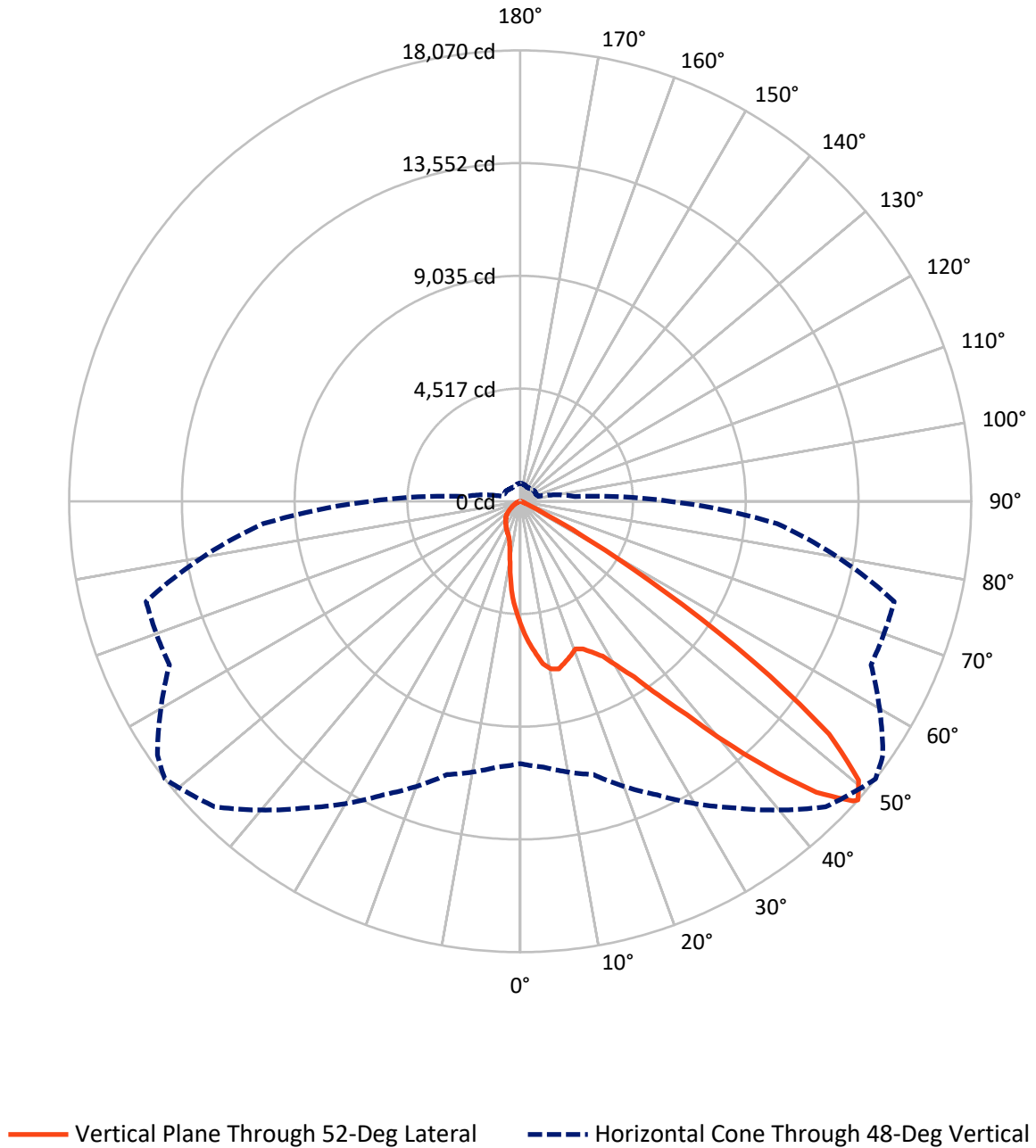
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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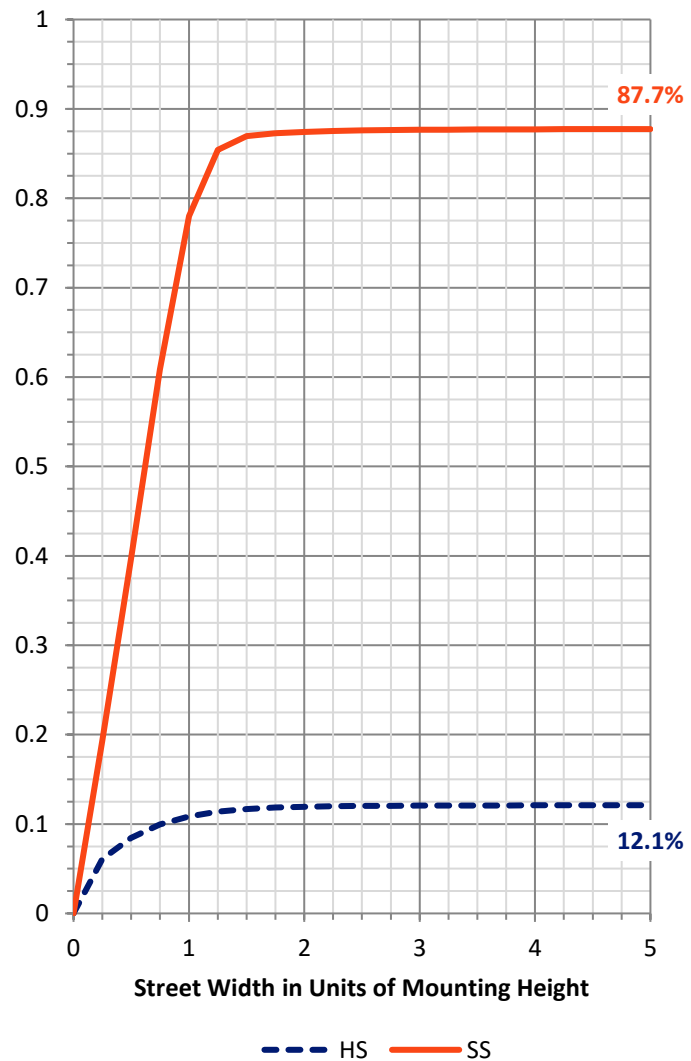
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2097.6	0.0	2097.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	15130.4	0.0	15130.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	17228.0	0.0	17228.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.4	2.6
10°-20°	1190.0	6.9
20°-30°	2031.9	11.8
30°-40°	3741.7	21.7
40°-50°	5810.9	33.7
50°-60°	3497.2	20.3
60°-70°	404.5	2.3
70°-80°	78.3	0.5
80°-90°	18.1	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°	17228.0	100.0
0°-180°	17228.0	100.0



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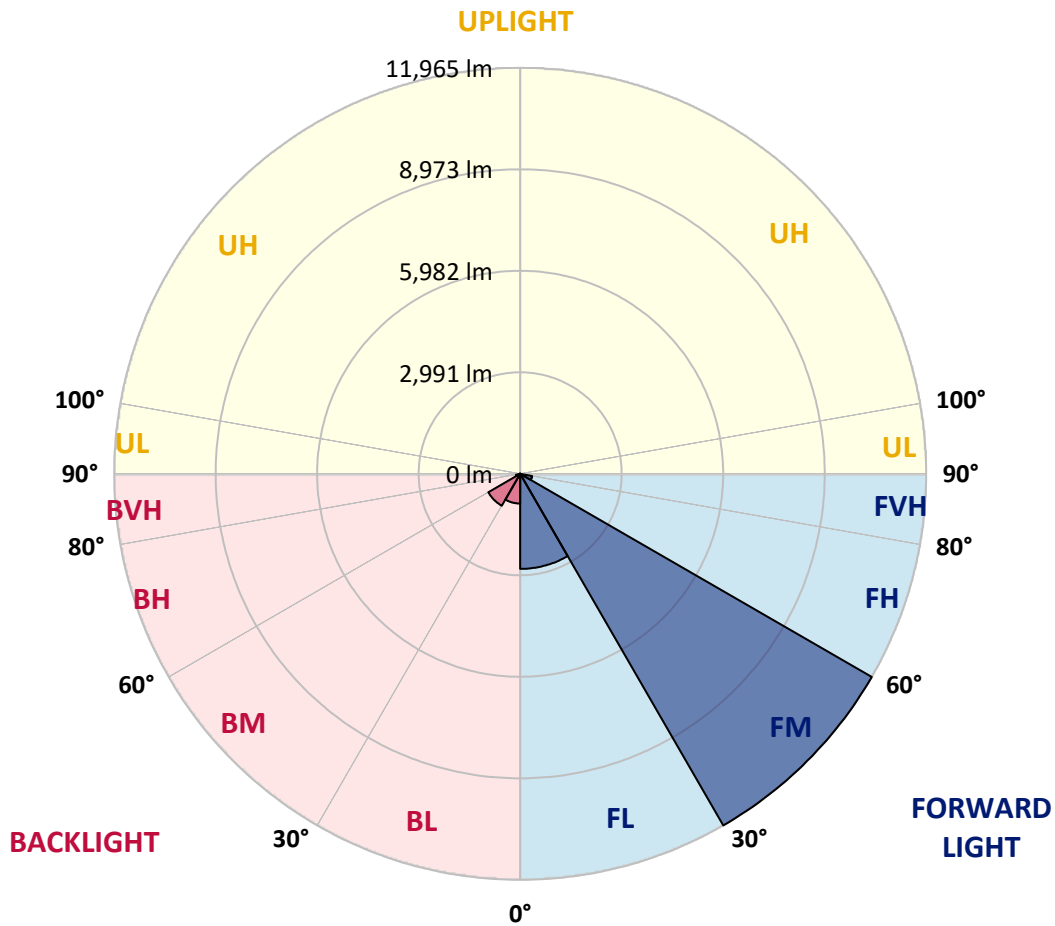
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2801.1	16.3			
FM (30°-60°)	11964.5	69.4			
FH (60°-80°)	356.2	2.1			G0/660
FVH (80°-90°)	8.6	0.0			G0/10
BL (0°-30°)	876.3	5.1	B2/1000		
BM (30°-60°)	1085.3	6.3	B2/2500		
BH (60°-80°)	126.6	0.7	B1/500		G1/500
BVH (80°-90°)	9.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2
2.5°	6030.0	5891.8	5904.4	5814.0	5761.2	5675.9	5560.3	5537.7	5412.2	5241.4	5068.1
5°	6572.4	6539.8	6582.5	6451.9	6456.9	6316.3	6045.0	6050.1	5761.2	5482.5	5213.7
7.5°	6607.6	6532.3	6574.9	6690.5	6758.3	6733.2	6580.0	6446.9	6173.1	5763.8	5372.0
10°	5916.9	6060.1	6105.3	6296.2	6567.4	6853.7	6836.1	6843.7	6615.1	6080.2	5507.6
12.5°	5502.6	5407.1	5560.3	5675.9	6085.2	6640.2	6893.9	6949.2	6966.7	6386.6	5643.2
15°	5314.2	5314.2	5339.3	5372.0	5668.3	6180.7	6698.0	6858.7	7238.0	6788.4	5856.7
17.5°	5432.2	5427.2	5462.4	5394.6	5505.1	5899.4	6517.2	6700.5	7541.9	7182.7	6024.9
20°	5791.4	5809.0	5786.4	5590.5	5598.0	5894.3	6316.3	6605.1	7747.8	7524.3	6248.5
22.5°	6291.2	6301.2	6173.1	5959.6	5896.9	6042.5	6431.8	6652.8	7913.5	7933.6	6316.3
25°	6868.8	6828.6	6803.5	6502.1	6311.2	6436.8	6693.0	6821.1	8016.5	8285.2	6509.6
27.5°	7669.9	7589.6	7436.4	7167.6	7027.0	6848.7	7032.0	7243.0	8310.4	8777.5	6720.6
30°	8852.8	8782.5	8483.6	8137.1	7767.9	7592.1	7649.8	7765.4	8840.3	9347.6	6999.4
32.5°	10633.4	10485.3	10053.3	9392.8	8890.5	8405.8	8390.7	8513.8	9314.9	10136.2	7330.9
35°	12594.9	12549.7	11914.3	11233.7	10261.7	9513.3	9525.9	9591.2	10224.1	11170.9	7765.4
37.5°	13898.3	14146.9	13742.6	13011.8	12195.5	11125.7	10854.4	10877.0	11472.3	12396.5	8548.9
40°	14905.4	14694.4	14742.1	14571.4	14013.8	13285.5	12685.3	12567.2	12916.3	13752.6	9327.5
42.5°	14465.9	14475.9	14769.8	15174.1	15312.2	15259.5	14646.7	14423.2	14152.0	14862.7	10068.4
45°	13225.2	13483.9	13865.7	14935.5	15874.8	16756.3	16635.8	16264.1	15005.8	15741.7	10495.3
47.5°	11246.2	11236.2	11861.5	13252.9	15339.9	17404.3	17951.8	17690.6	15611.1	15643.8	10407.4
48°	10515.4	10696.2	11341.7	12979.1	15000.8	17308.8	18069.8	17740.8	15508.1	15513.2	10332.1
50°	7772.9	7740.3	8543.9	10553.1	13398.5	16264.1	17572.5	17828.7	15505.6	14852.6	9804.7
52.5°	4106.2	4246.8	4832.0	6635.2	9473.1	13310.6	15500.6	15899.9	14958.1	13772.7	9046.2
55°	1745.4	1577.2	2026.7	2996.1	5329.3	8893.0	11371.8	12260.8	12647.6	12188.0	7913.5
57.5°	622.8	680.6	783.6	1127.6	2240.2	4867.2	6780.9	7471.5	8762.4	8943.2	5392.1
60°	399.3	406.9	439.5	517.4	841.3	1876.0	3217.2	3767.2	4352.3	4493.0	2516.5
62.5°	308.9	311.4	326.5	339.0	399.3	728.3	1208.0	1431.5	1486.8	1278.3	660.5
65°	258.7	261.2	266.2	266.2	283.8	341.6	421.9	464.6	452.1	447.0	374.2
67.5°	198.4	203.4	213.5	213.5	223.5	208.4	233.6	248.6	281.3	341.6	319.0
70°	155.7	158.2	165.8	170.8	170.8	150.7	168.3	183.3	205.9	253.7	251.1
72.5°	120.5	125.6	130.6	130.6	123.1	103.0	120.5	133.1	148.2	175.8	170.8
75°	92.9	92.9	95.4	77.9	60.3	52.7	72.8	87.9	110.5	115.5	95.4
77.5°	25.1	27.6	25.1	22.6	25.1	37.7	47.7	55.3	70.3	70.3	62.8
80°	0.0	2.5	7.5	15.1	25.1	35.2	42.7	47.7	55.3	60.3	57.8
82.5°	0.0	2.5	7.5	15.1	22.6	27.6	37.7	40.2	45.2	52.7	52.7
85°	0.0	2.5	5.0	10.0	15.1	17.6	17.6	15.1	15.1	12.6	10.0
87.5°	0.0	0.0	2.5	5.0	5.0	7.5	7.5	7.5	7.5	7.5	7.5
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°	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2	4975.2
2.5°	5000.3	4922.4	4804.4	4618.5	4440.2	4324.7	4214.2	4091.1	4023.3	4018.3	3980.6
5°	5060.5	4884.7	4603.5	4284.5	3943.0	3649.1	3352.8	3159.4	2986.1	2890.7	2873.1
7.5°	5093.2	4864.7	4410.1	3875.2	3292.5	2812.8	2481.3	2237.7	2142.3	2071.9	2069.4
10°	5161.0	4829.5	4121.3	3332.7	2611.9	2127.2	1898.6	1788.1	1735.4	1715.3	1685.2
12.5°	5211.2	4764.2	3824.9	2775.1	2064.4	1763.0	1662.6	1637.5	1640.0	1650.0	1637.5
15°	5281.6	4706.4	3425.6	2277.9	1732.9	1587.2	1587.2	1592.3	1627.4	1632.4	1629.9
17.5°	5276.5	4593.4	3013.7	1876.0	1532.0	1511.9	1519.4	1567.1	1589.7	1597.3	1579.7
20°	5336.8	4487.9	2589.3	1602.3	1419.0	1449.1	1499.3	1511.9	1539.5	1544.5	1524.4
22.5°	5319.2	4224.2	2195.0	1386.3	1333.6	1391.3	1441.6	1456.6	1449.1	1434.0	1431.5
25°	5286.6	3998.2	1833.4	1243.2	1270.8	1333.6	1381.3	1353.7	1338.6	1341.1	1343.6
27.5°	5228.8	3711.9	1534.5	1142.7	1185.4	1278.3	1275.8	1265.8	1280.8	1268.3	1280.8
30°	5218.8	3425.6	1288.4	1052.3	1122.6	1190.4	1195.4	1213.0	1230.6	1208.0	1230.6
32.5°	5233.8	3111.7	1112.6	997.0	1084.9	1087.5	1142.7	1160.3	1147.7	1097.5	1102.5
35°	5349.4	2870.6	984.5	966.9	1024.7	1027.2	1079.9	1057.3	1002.1	971.9	989.5
37.5°	5593.0	2669.7	924.2	939.3	944.3	976.9	979.5	934.3	939.3	936.8	946.8
40°	5904.4	2516.5	881.5	914.2	909.1	931.7	841.3	866.4	889.0	896.6	901.6
42.5°	6117.9	2406.0	853.9	874.0	863.9	823.8	773.5	798.6	816.2	843.8	848.9
45°	6213.3	2318.1	821.2	803.7	803.7	730.8	710.7	715.8	755.9	786.1	781.1
47.5°	6057.6	2232.7	763.5	710.7	728.3	668.0	645.4	645.4	688.1	725.8	718.3
48°	5997.3	2197.5	766.0	690.6	703.2	658.0	635.4	630.4	678.1	713.2	713.2
50°	5698.5	2066.9	700.7	635.4	610.3	605.3	590.2	595.2	625.3	658.0	658.0
52.5°	5115.8	1785.6	592.7	545.0	499.8	529.9	537.4	527.4	542.5	572.6	570.1
55°	4269.4	1371.2	474.7	452.1	416.9	449.5	464.6	452.1	437.0	459.6	459.6
57.5°	2735.0	738.4	379.2	384.3	349.1	381.7	394.3	364.2	336.5	354.1	351.6
60°	1233.1	442.0	311.4	303.9	281.3	319.0	339.0	303.9	266.2	278.8	291.3
62.5°	462.1	313.9	236.1	231.1	226.0	261.2	271.2	243.6	205.9	213.5	216.0
65°	339.0	276.3	188.4	170.8	180.8	205.9	200.9	173.3	148.2	148.2	153.2
67.5°	288.8	241.1	153.2	133.1	133.1	135.6	125.6	110.5	103.0	108.0	113.0
70°	226.0	190.9	120.5	103.0	92.9	82.9	72.8	70.3	62.8	70.3	67.8
72.5°	145.7	128.1	92.9	77.9	70.3	57.8	47.7	45.2	37.7	35.2	35.2
75°	77.9	77.9	72.8	62.8	55.3	45.2	37.7	30.1	20.1	15.1	15.1
77.5°	55.3	60.3	65.3	60.3	50.2	37.7	30.1	20.1	10.0	5.0	5.0
80°	52.7	60.3	65.3	57.8	50.2	37.7	27.6	15.1	7.5	2.5	2.5
82.5°	47.7	55.3	60.3	52.7	45.2	32.6	25.1	15.1	7.5	2.5	2.5
85°	10.0	12.6	15.1	15.1	17.6	22.6	17.6	12.6	5.0	2.5	2.5
87.5°	7.5	7.5	7.5	7.5	7.5	7.5	5.0	5.0	2.5	2.5	2.5
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)