

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: P527552

Luminaire Tested: **GALN-SA2C-750-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527552
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-SA2C-750-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1050mA 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: 12757 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

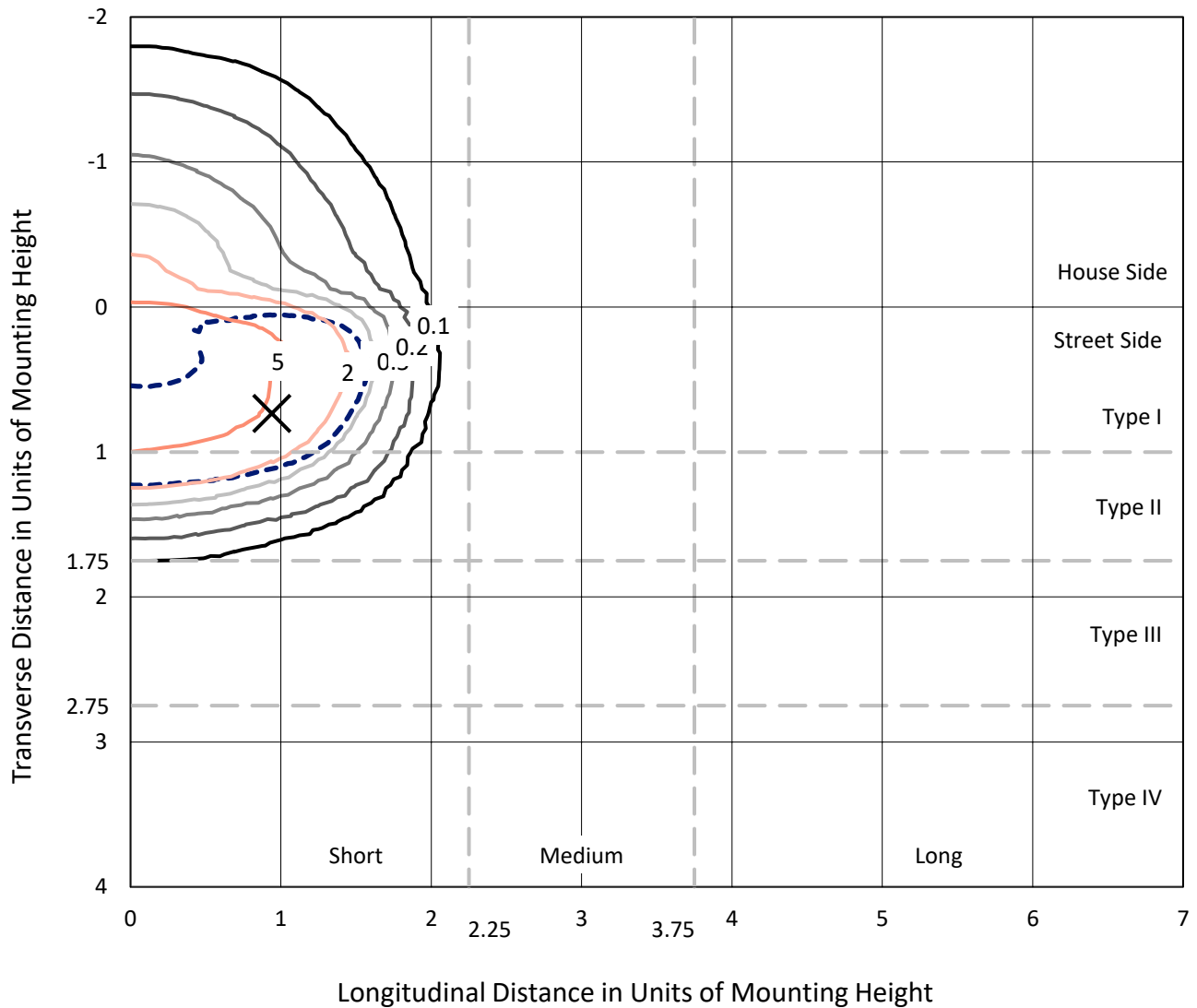
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

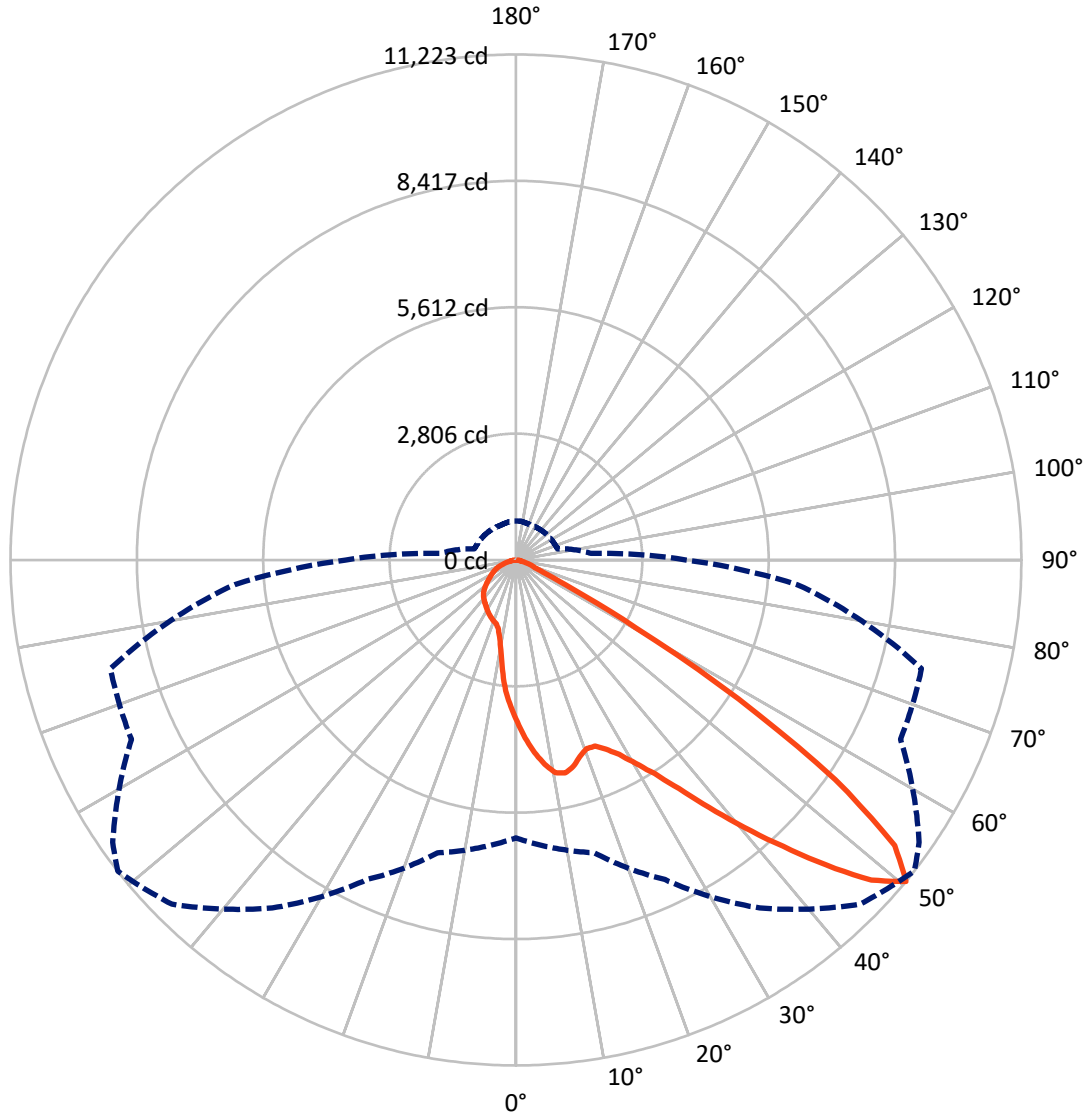
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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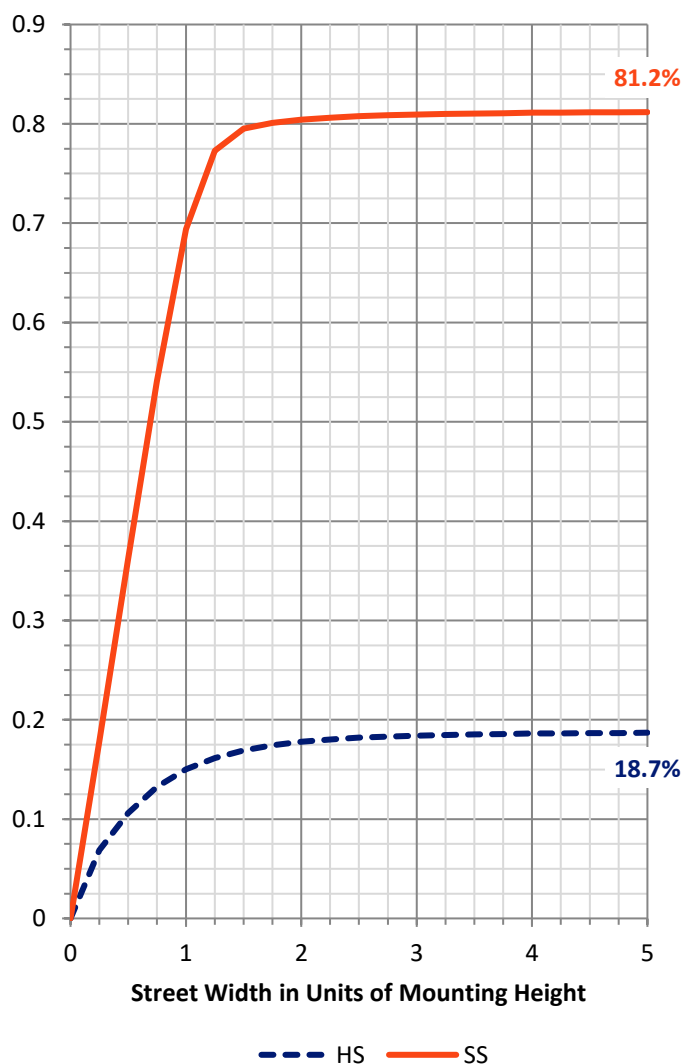
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2398.0	0.0	2398.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	10359.0	0.0	10359.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	12757.0	0.0	12757.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.4	2.6
10°-20°	888.3	7.0
20°-30°	1496.4	11.7
30°-40°	2511.1	19.7
40°-50°	3841.3	30.1
50°-60°	2800.6	22.0
60°-70°	623.3	4.9
70°-80°	224.8	1.8
80°-90°	39.8	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°	12757.0	100.0
0°-180°	12757.0	100.0

Coefficient of Utilization



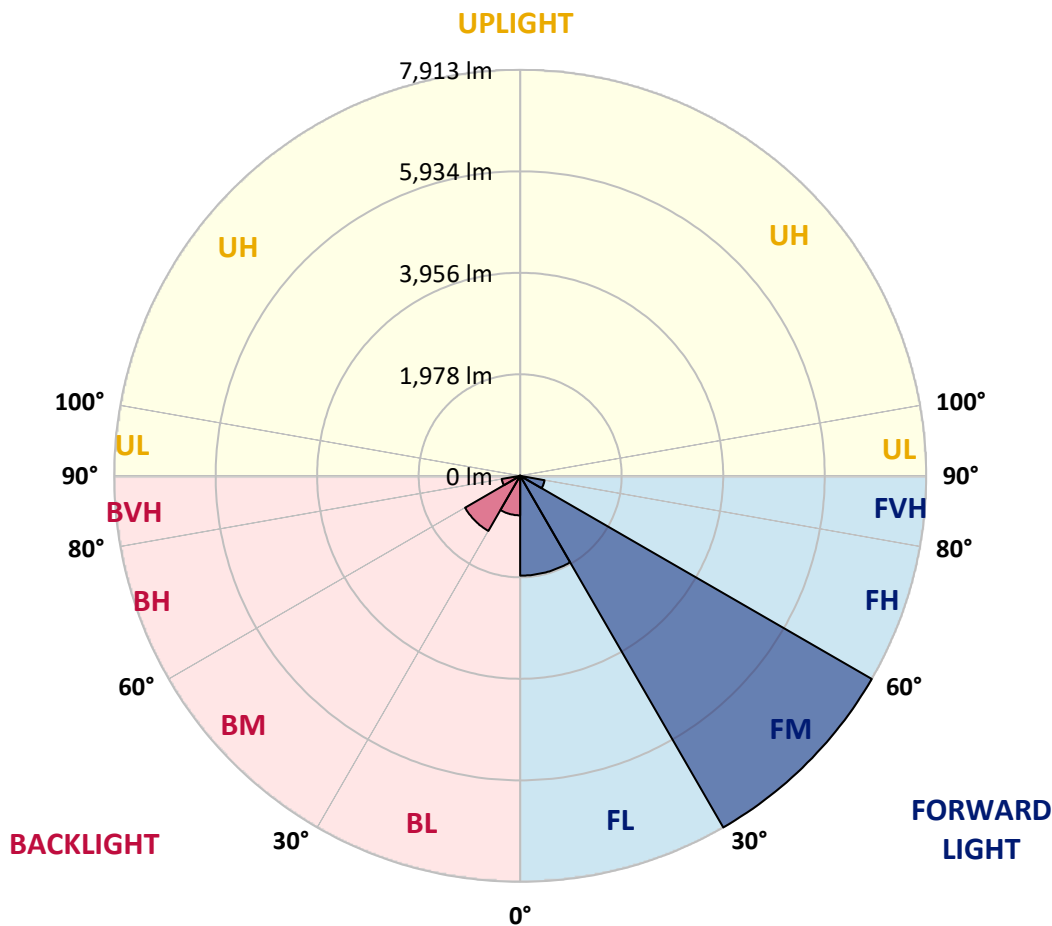
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1945.9	15.3			
FM (30°-60°)	7912.5	62.0			
FH (60°-80°)	482.7	3.8			G0/660
FVH (80°-90°)	17.8	0.1			G1/100
BL (0°-30°)	770.3	6.0	B2/1000		
BM (30°-60°)	1240.4	9.7	B2/2500		
BH (60°-80°)	365.3	2.9	B1/500		G1/500
BVH (80°-90°)	22.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3596.0	3596.0	3596.0	3596.0	3596.0	3596.0	3596.0	3596.0	3596.0	3596.0	3596.0
2.5°	4234.0	4152.5	4161.8	4103.3	4040.3	4021.8	3957.3	3895.8	3849.7	3751.3	3660.6
5°	4627.6	4603.0	4566.1	4520.0	4472.3	4355.5	4289.4	4212.5	4043.4	3891.2	3740.5
7.5°	4684.5	4679.9	4699.8	4699.8	4716.8	4672.2	4578.4	4524.6	4344.7	4097.2	3817.4
10°	4284.7	4298.6	4395.4	4521.5	4696.8	4818.2	4802.8	4789.0	4592.2	4254.0	3908.1
12.5°	3966.5	3935.8	3992.6	4100.3	4363.2	4656.8	4855.1	4856.7	4805.9	4504.6	3974.2
15°	3786.6	3808.1	3823.5	3874.3	4072.6	4412.3	4761.3	4864.3	5087.3	4681.4	4078.7
17.5°	3901.9	3829.7	3826.6	3838.9	3940.4	4195.6	4587.6	4764.4	5241.0	4908.9	4207.9
20°	4052.6	4051.1	4008.0	3992.6	3991.1	4218.6	4473.8	4713.7	5322.5	5204.1	4338.6
22.5°	4317.0	4317.0	4246.3	4212.5	4140.2	4326.3	4489.2	4652.2	5457.8	5407.0	4401.6
25°	4759.8	4687.5	4566.1	4483.1	4441.6	4507.7	4652.2	4798.2	5576.2	5622.3	4532.3
27.5°	5168.8	5055.0	4995.0	4852.0	4796.7	4758.3	4890.5	5038.1	5714.5	5957.4	4603.0
30°	5633.0	5613.1	5505.4	5321.0	5184.1	5113.4	5234.9	5380.9	5968.2	6300.3	4766.0
32.5°	6463.2	6281.8	6135.8	5909.8	5686.9	5536.2	5656.1	5753.0	6389.4	6658.5	4944.3
35°	7359.6	7301.1	7049.0	6641.6	6300.3	6165.0	6235.7	6308.0	6879.9	7205.8	5244.1
37.5°	8240.5	8160.5	7953.0	7610.1	7195.0	6919.9	6970.6	7055.1	7430.3	7943.8	5610.0
40°	8873.9	8775.5	8671.0	8620.2	8208.2	7831.5	7802.3	7823.8	8174.4	8635.6	6015.9
42.5°	8920.0	9041.5	9073.8	9278.2	9181.4	8872.4	8692.5	8697.1	8884.7	9319.7	6426.3
45°	8823.2	8710.9	8949.2	9507.3	9827.1	9971.6	9668.7	9630.3	9324.4	9716.4	6630.8
47.5°	7806.9	7837.7	8240.5	9123.0	10046.9	10692.6	10621.9	10494.3	9559.6	9702.6	6598.5
50°	6171.1	6357.2	6730.8	7830.0	9432.0	10806.4	11223.0	10927.9	9419.7	9321.3	6269.5
52.5°	4109.5	4186.3	4432.3	5851.4	7584.0	9659.5	10531.2	10598.9	9290.5	8821.6	5852.9
55°	1829.5	1823.4	2169.3	3056.4	4758.3	7350.3	8604.8	9016.9	8793.9	8312.7	5447.0
57.5°	774.9	801.0	942.4	1320.6	2339.9	4435.4	5829.8	6191.1	6763.0	6826.1	4178.7
60°	524.3	527.3	565.8	661.1	979.3	2083.2	3057.9	3491.4	3900.4	3872.7	2216.9
62.5°	412.0	422.8	452.0	490.4	581.1	945.5	1368.3	1609.7	1635.8	1376.0	841.0
65°	352.1	353.6	382.8	415.1	455.1	550.4	659.5	671.8	679.5	654.9	618.0
67.5°	290.6	293.6	316.7	353.6	390.5	421.2	452.0	467.4	502.7	571.9	562.7
70°	230.6	235.2	255.2	286.0	319.8	338.2	376.7	390.5	422.8	476.6	498.1
72.5°	175.3	176.8	193.7	215.2	246.0	264.4	296.7	312.1	333.6	379.7	399.7
75°	126.1	130.7	143.0	153.7	158.4	170.7	201.4	218.3	249.1	269.0	270.6
77.5°	66.1	69.2	72.3	72.3	87.6	110.7	130.7	139.9	161.4	176.8	169.1
80°	26.1	27.7	35.4	47.7	61.5	79.9	93.8	98.4	116.8	126.1	130.7
82.5°	15.4	16.9	23.1	33.8	44.6	56.9	67.6	72.3	84.6	95.3	98.4
85°	7.7	9.2	13.8	21.5	29.2	35.4	33.8	32.3	32.3	30.7	32.3
87.5°	3.1	3.1	4.6	4.6	4.6	6.1	7.7	7.7	7.7	9.2	9.2
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°	3596.0	3596.0	3596.0	3596.0	3596.0	3596.0	3596.0	3596.0	3596.0	3596.0	3596.0
2.5°	3600.6	3539.1	3482.2	3377.7	3263.9	3231.6	3099.4	3051.7	3017.9	2978.0	2965.7
5°	3619.0	3537.6	3354.6	3144.0	2976.4	2761.2	2619.7	2467.5	2356.8	2329.2	2321.5
7.5°	3657.5	3517.6	3202.4	2884.2	2541.3	2249.2	2026.3	1906.4	1800.3	1794.1	1783.4
10°	3700.5	3457.6	3036.4	2536.7	2098.6	1828.0	1694.2	1641.9	1615.8	1609.7	1606.6
12.5°	3735.9	3445.3	2850.3	2198.5	1784.9	1622.0	1582.0	1577.4	1588.1	1591.2	1597.4
15°	3751.3	3396.1	2625.9	1895.6	1589.7	1529.7	1546.6	1565.1	1572.8	1592.8	1577.4
17.5°	3780.5	3333.1	2349.2	1655.8	1480.5	1491.3	1520.5	1542.0	1554.3	1568.2	1548.2
20°	3795.8	3276.2	2089.3	1512.8	1442.1	1462.1	1502.0	1519.0	1534.3	1540.5	1517.4
22.5°	3782.0	3159.4	1860.3	1397.5	1405.2	1431.3	1466.7	1485.1	1475.9	1451.3	1437.5
25°	3745.1	2994.9	1622.0	1323.7	1352.9	1399.0	1426.7	1412.9	1396.0	1382.1	1377.5
27.5°	3743.6	2793.5	1449.8	1256.1	1308.3	1371.4	1362.1	1349.8	1357.5	1346.8	1334.5
30°	3751.3	2598.2	1308.3	1217.6	1276.0	1306.8	1317.6	1305.3	1314.5	1294.5	1300.6
32.5°	3711.3	2407.6	1216.1	1173.0	1237.6	1236.1	1271.4	1280.7	1259.1	1217.6	1223.8
35°	3728.2	2253.8	1137.7	1153.1	1194.6	1194.6	1222.2	1211.5	1154.6	1130.0	1136.1
37.5°	3845.0	2103.2	1099.2	1125.4	1153.1	1165.4	1156.1	1110.0	1096.2	1096.2	1099.2
40°	3955.7	1974.0	1076.2	1119.2	1114.6	1122.3	1054.7	1059.3	1059.3	1060.8	1053.1
42.5°	4054.1	1886.4	1057.7	1082.3	1090.0	1050.0	1008.5	1003.9	1014.7	1013.1	1007.0
45°	4089.5	1814.1	1031.6	1040.8	1047.0	980.9	960.9	951.7	964.0	968.6	974.7
47.5°	3954.2	1754.2	1002.4	983.9	971.6	928.6	902.5	885.5	900.9	927.1	933.2
50°	3780.5	1675.8	956.3	920.9	894.8	876.3	857.9	841.0	851.7	870.2	865.6
52.5°	3523.7	1552.8	897.8	860.9	816.4	821.0	804.1	794.8	801.0	801.0	796.4
55°	3157.8	1276.0	799.4	773.3	736.4	748.7	751.8	739.5	727.2	738.0	728.7
57.5°	2155.4	900.9	713.4	713.4	676.5	693.4	691.8	662.6	633.4	636.5	630.3
60°	1246.8	718.0	658.0	651.9	613.4	627.3	630.3	610.3	565.8	568.8	562.7
62.5°	708.7	613.4	575.0	565.8	558.1	570.4	570.4	544.2	505.8	508.9	502.7
65°	602.7	568.8	513.5	512.0	508.9	512.0	499.7	472.0	438.2	424.3	425.9
67.5°	547.3	525.8	472.0	458.1	448.9	447.4	424.3	398.2	382.8	370.5	369.0
70°	479.7	462.8	422.8	404.3	395.1	373.6	350.5	333.6	312.1	305.9	312.1
72.5°	379.7	378.2	362.8	342.8	322.9	305.9	286.0	262.9	242.9	238.3	227.5
75°	262.9	266.0	269.0	266.0	249.1	227.5	204.5	186.0	161.4	147.6	144.5
77.5°	172.2	176.8	181.4	175.3	164.5	144.5	129.1	106.1	87.6	76.9	75.3
80°	126.1	132.2	135.3	130.7	118.4	103.0	86.1	67.6	53.8	44.6	44.6
82.5°	96.9	103.0	106.1	98.4	86.1	73.8	61.5	47.7	36.9	29.2	27.7
85°	33.8	32.3	38.4	40.0	47.7	44.6	36.9	27.7	21.5	15.4	13.8
87.5°	9.2	9.2	10.8	10.8	9.2	7.7	7.7	7.7	6.1	4.6	4.6
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)