

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: P528234

Luminaire Tested: **GALN-SA3B-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14370 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

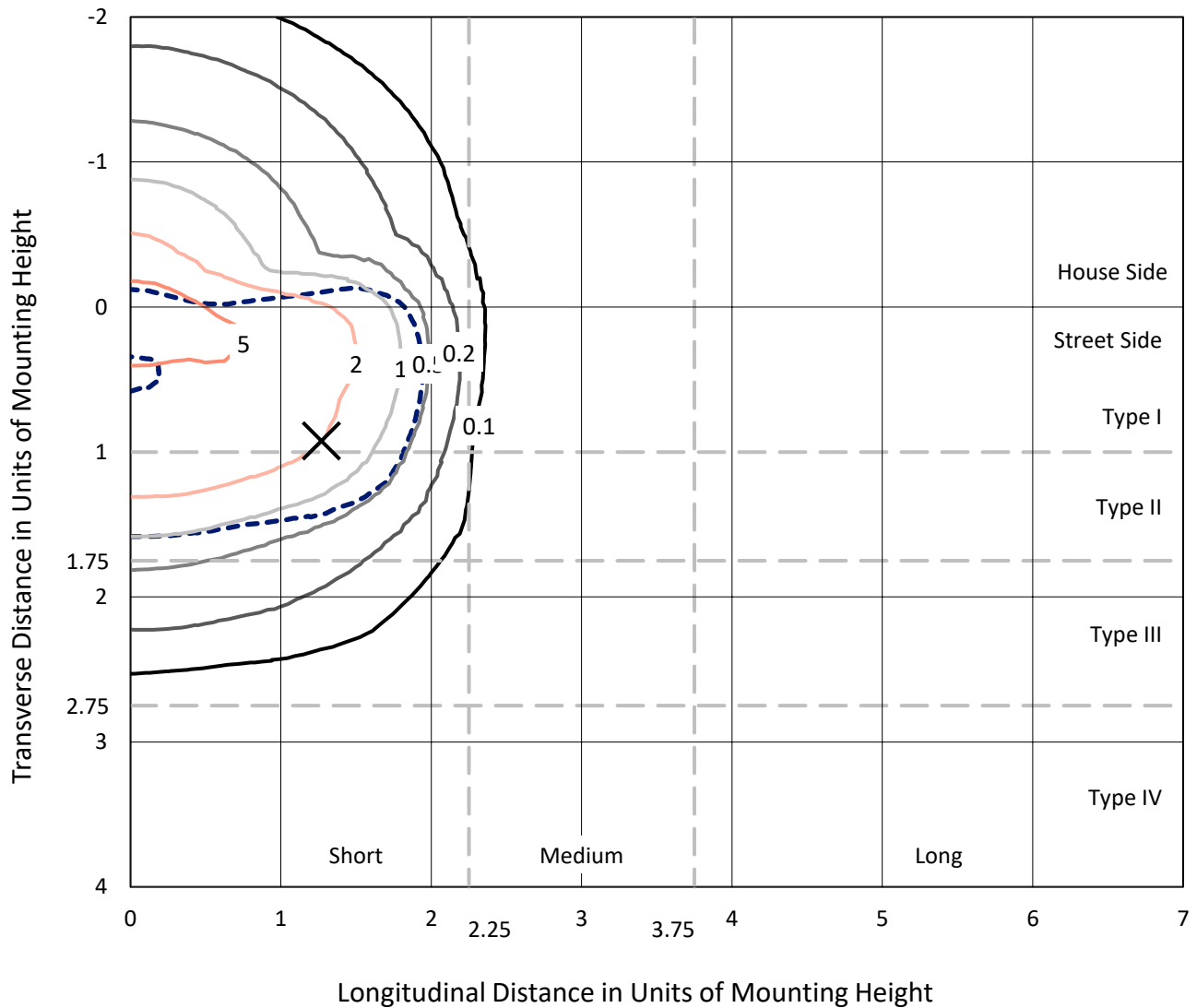
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

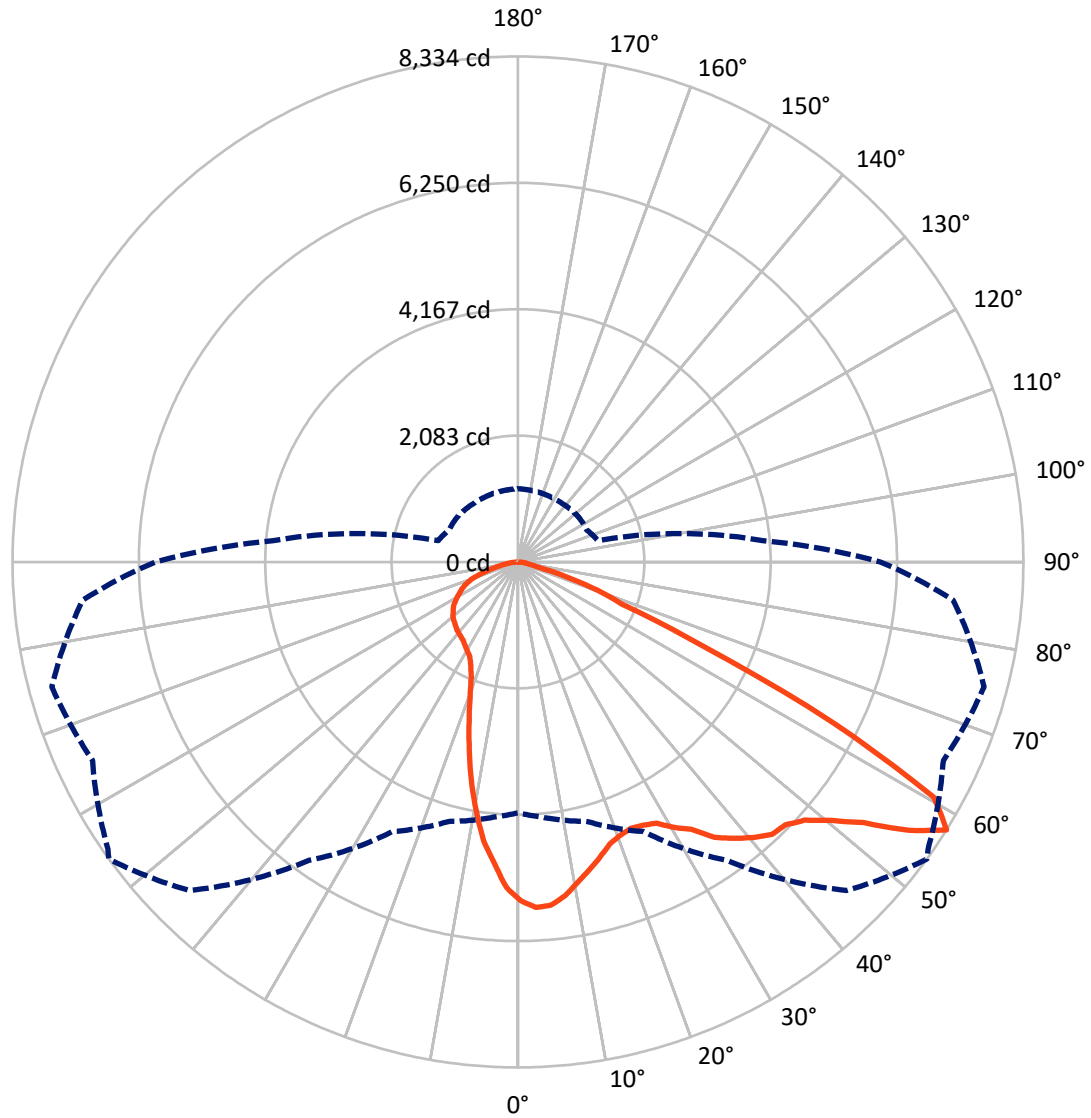
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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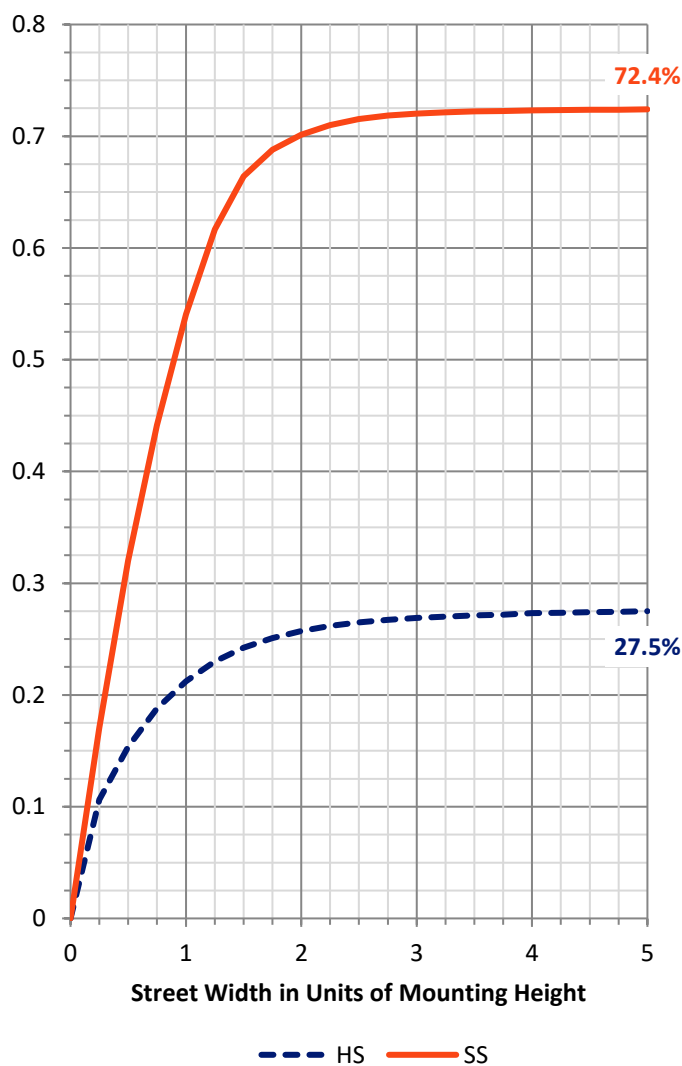
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3975.5	0.0	3975.5
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	10394.5	0.0	10394.5
	% Fixture	72.3	0.0	72.3
Total	Lumens	14370.0	0.0	14370.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.7	3.4
10°-20°	1115.3	7.8
20°-30°	1567.0	10.9
30°-40°	2190.7	15.2
40°-50°	2965.8	20.6
50°-60°	3612.4	25.1
60°-70°	1881.5	13.1
70°-80°	482.1	3.4
80°-90°	73.5	0.5
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°	14370.0	100.0
0°-180°	14370.0	100.0

Coefficient of Utilization



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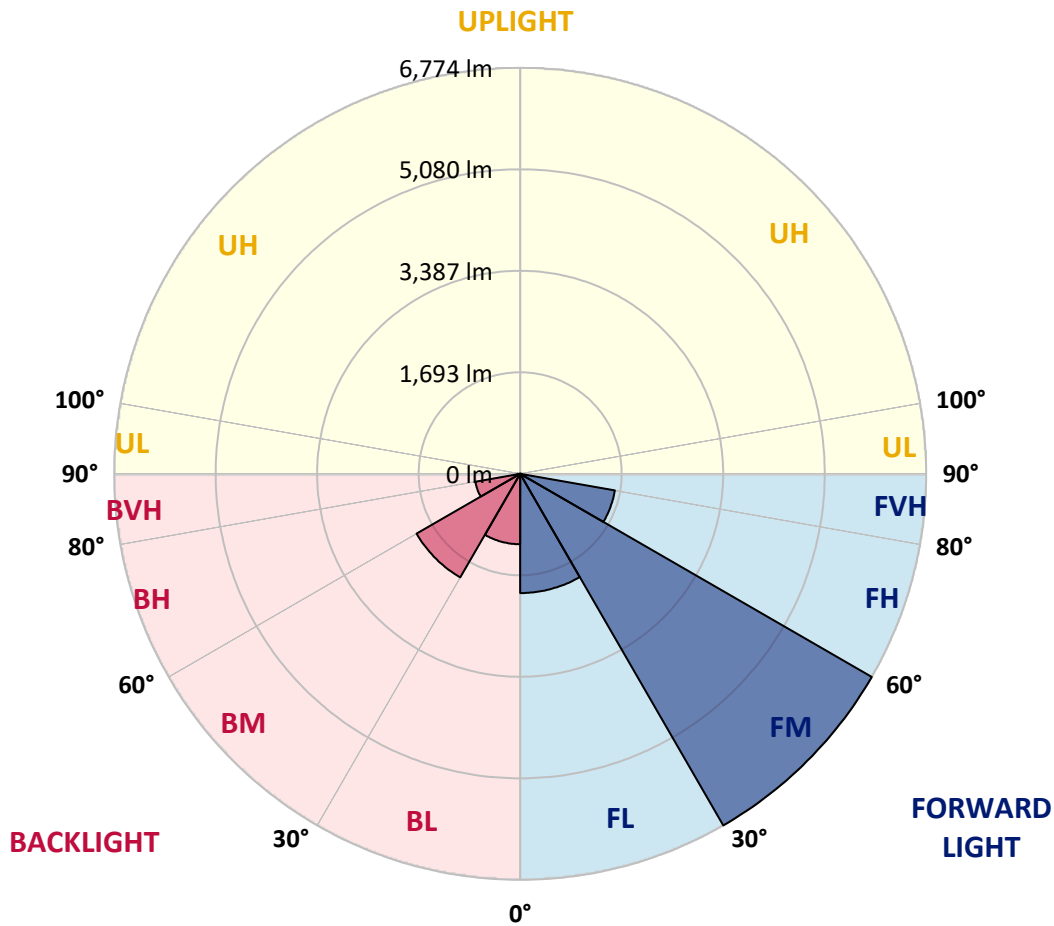
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1989.0	13.8			
FM (30°-60°)	6773.6	47.1			
FH (60°-80°)	1604.1	11.2			G1/1800
FVH (80°-90°)	27.8	0.2			G1/100
BL (0°-30°)	1175.0	8.2	B3/2500		
BM (30°-60°)	1995.3	13.9	B2/2500		
BH (60°-80°)	759.5	5.3	B2/1000		G2/1000
BVH (80°-90°)	45.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5585.5	5585.5	5585.5	5585.5	5585.5	5585.5	5585.5	5585.5	5585.5	5585.5	5585.5
2.5°	5744.3	5722.1	5725.8	5755.4	5718.4	5703.7	5703.7	5631.6	5637.2	5587.3	5574.4
5°	5611.3	5559.6	5594.7	5639.0	5646.4	5661.2	5685.2	5666.7	5615.0	5561.4	5474.6
7.5°	5264.1	5310.2	5323.2	5354.6	5421.1	5482.0	5557.7	5506.0	5504.2	5450.6	5398.9
10°	4959.3	4931.6	5001.8	5048.0	5158.8	5260.4	5376.7	5371.2	5398.9	5338.0	5249.3
12.5°	4656.4	4634.2	4667.5	4772.8	4927.9	5075.7	5214.2	5162.5	5310.2	5299.2	5108.9
15°	4335.0	4351.6	4399.7	4497.5	4700.7	4878.0	5053.5	5055.4	5186.5	5230.8	4975.9
17.5°	4109.7	4091.2	4152.1	4298.1	4479.1	4691.5	4891.0	4931.6	5132.9	5158.8	4935.3
20°	3941.6	3967.4	4046.9	4120.8	4329.5	4586.2	4811.5	4826.3	5121.8	5192.0	4870.6
22.5°	3901.0	3886.2	3912.0	4032.1	4203.9	4482.8	4769.1	4824.5	5120.0	5181.0	4748.7
25°	3858.5	3906.5	3904.6	4024.7	4150.3	4399.7	4804.2	4865.1	5217.9	5238.2	4765.4
27.5°	3954.5	3949.0	4000.7	4009.9	4165.1	4421.8	4878.0	4924.2	5380.4	5363.8	4778.3
30°	4050.6	4022.9	4054.3	4163.2	4235.3	4549.3	5081.2	5077.5	5591.0	5579.9	4818.9
32.5°	4168.8	4155.8	4176.2	4272.2	4394.1	4719.2	5253.0	5362.0	5805.3	5875.4	4959.3
35°	4190.9	4244.5	4292.5	4421.8	4595.4	4994.4	5576.2	5666.7	6052.8	6272.6	5227.1
37.5°	4331.3	4351.6	4464.3	4693.3	4852.2	5362.0	5781.2	5838.5	6278.1	6527.4	5509.7
40°	4480.9	4504.9	4674.9	4915.0	5132.9	5602.1	5973.3	5991.8	6350.1	6723.2	5694.4
42.5°	4684.1	4706.3	4874.3	5175.4	5467.2	5807.1	6143.3	6163.6	6344.6	6948.6	5988.1
45°	4894.7	4948.2	5145.9	5487.6	5749.8	6047.2	6182.0	6265.2	6396.3	7149.9	6226.4
47.5°	5190.2	5240.1	5402.6	5736.9	6043.5	6257.8	6361.2	6442.5	6520.1	7325.4	6379.7
50°	5504.2	5513.4	5711.1	6014.0	6239.3	6496.0	6695.5	6723.2	6682.6	7528.5	6640.1
52.5°	5735.1	5764.6	5917.9	6213.4	6549.6	6865.5	7138.8	7168.4	7088.9	7604.3	6728.8
55°	5352.7	5336.1	5585.5	5978.9	6758.3	7415.9	7813.0	7835.2	7384.5	7838.8	7018.8
57.5°	4137.4	4216.8	4429.2	4903.9	6004.7	7659.7	8333.9	8254.4	7739.1	7957.1	7203.5
60°	3007.0	2988.5	3130.7	3448.4	4525.3	6601.3	7879.5	7960.8	7449.1	7172.1	5940.1
62.5°	2449.2	2423.3	2434.4	2445.5	2920.2	4381.2	5833.0	5831.1	5736.9	5155.1	4006.2
65°	1957.9	2018.8	2024.4	2107.5	2168.4	2617.3	3380.1	3561.1	3101.2	2543.4	1845.2
67.5°	1475.8	1453.6	1527.5	1823.0	1937.5	1889.5	1845.2	1865.5	1326.2	956.8	901.4
70°	870.0	860.7	949.4	1270.8	1595.8	1501.6	1390.8	1392.7	910.6	668.6	744.4
72.5°	476.5	474.7	493.2	644.6	906.9	942.0	834.9	860.7	543.0	541.2	581.8
75°	266.0	260.4	254.9	284.4	326.9	345.4	352.8	356.5	373.1	417.4	434.1
77.5°	97.9	94.2	94.2	109.0	138.5	173.6	219.8	223.5	264.1	302.9	319.5
80°	33.2	36.9	49.9	68.3	92.4	123.8	149.6	153.3	186.6	212.4	218.0
82.5°	20.3	22.2	33.2	48.0	66.5	86.8	110.8	112.7	138.5	155.2	162.5
85°	9.2	11.1	18.5	29.6	42.5	57.3	59.1	59.1	57.3	59.1	55.4
87.5°	0.0	0.0	3.7	3.7	3.7	5.5	7.4	5.5	9.2	11.1	11.1
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°	5585.5	5585.5	5585.5	5585.5	5585.5	5585.5	5585.5	5585.5	5585.5	5585.5	5585.5
2.5°	5535.6	5515.3	5452.5	5397.1	5380.4	5306.6	5197.6	5210.5	5131.1	5168.0	5129.2
5°	5459.9	5391.5	5230.8	5162.5	4983.3	4902.0	4846.6	4708.1	4643.5	4630.5	4575.1
7.5°	5265.9	5223.4	5022.1	4837.4	4647.2	4484.6	4275.9	4133.7	4032.1	4004.4	3923.1
10°	5112.6	5018.4	4739.5	4458.8	4187.2	3904.6	3633.1	3420.7	3317.3	3197.2	3156.6
12.5°	4961.2	4818.9	4442.1	4082.0	3731.0	3374.5	3045.8	2787.2	2561.8	2508.3	2489.8
15°	4867.0	4619.5	4176.2	3742.1	3243.4	2778.0	2449.2	2279.2	2140.7	2083.5	2124.1
17.5°	4743.2	4455.1	3921.3	3343.1	2794.6	2366.1	2090.9	1985.6	1935.7	1941.2	1924.6
20°	4588.1	4299.9	3587.0	2981.1	2393.8	2052.1	1895.1	1856.3	1863.7	1876.6	1871.1
22.5°	4477.2	4111.5	3345.0	2611.7	2068.7	1878.4	1813.8	1786.1	1810.1	1821.2	1811.9
25°	4392.3	3950.8	3051.3	2284.8	1880.3	1780.5	1751.0	1749.1	1786.1	1800.9	1791.6
27.5°	4314.7	3801.2	2759.5	2035.4	1754.7	1704.8	1695.6	1717.7	1741.8	1756.5	1769.5
30°	4268.5	3686.7	2486.1	1826.7	1691.9	1667.9	1651.3	1671.6	1684.5	1699.3	1691.9
32.5°	4312.8	3605.4	2222.0	1708.5	1640.2	1616.2	1638.3	1625.4	1647.6	1660.5	1640.2
35°	4451.4	3533.4	2033.6	1645.7	1581.1	1590.3	1594.0	1588.5	1597.7	1586.6	1610.6
37.5°	4588.1	3507.5	1860.0	1592.2	1553.4	1553.4	1549.7	1538.6	1557.1	1553.4	1564.4
40°	4761.7	3524.2	1712.2	1534.9	1527.5	1523.8	1509.0	1507.2	1499.8	1501.6	1505.3
42.5°	4913.1	3561.1	1627.2	1498.0	1503.5	1510.9	1483.2	1461.0	1470.2	1451.8	1451.8
45°	5073.8	3594.3	1551.5	1472.1	1466.6	1464.7	1442.5	1429.6	1422.2	1424.1	1440.7
47.5°	5326.9	3642.4	1494.3	1437.0	1440.7	1413.0	1407.4	1390.8	1398.2	1409.3	1411.1
50°	5506.0	3744.0	1449.9	1396.4	1409.3	1390.8	1357.6	1350.2	1350.2	1368.7	1365.0
52.5°	5631.6	3886.2	1407.4	1352.0	1357.6	1342.8	1331.7	1315.1	1304.0	1329.9	1342.8
55°	6015.8	4122.6	1396.4	1315.1	1313.2	1298.5	1278.2	1261.5	1256.0	1259.7	1285.5
57.5°	5978.9	4048.7	1361.3	1250.4	1246.8	1226.4	1206.1	1200.6	1198.7	1202.4	1209.8
60°	4854.0	2990.4	1215.4	1176.6	1171.0	1167.3	1147.0	1124.8	1113.8	1124.8	1115.6
62.5°	3212.0	2002.2	1071.3	1087.9	1091.6	1082.4	1049.1	1027.0	1030.6	1043.6	1023.3
65°	1577.4	1176.6	971.5	1015.9	1019.6	993.7	962.3	936.5	923.5	934.6	925.4
67.5°	901.4	899.5	890.3	936.5	934.6	908.7	858.9	836.7	814.5	818.2	812.7
70°	764.7	779.5	797.9	825.6	823.8	794.2	735.1	718.5	687.1	683.4	674.2
72.5°	602.1	628.0	668.6	688.9	672.3	635.4	596.6	568.9	541.2	524.6	530.1
75°	447.0	483.9	506.1	519.0	493.2	472.8	441.4	408.2	374.9	360.2	354.6
77.5°	325.1	336.2	356.5	365.7	349.1	328.8	310.3	277.1	245.7	225.3	219.8
80°	227.2	234.6	249.4	249.4	249.4	240.1	216.1	182.9	162.5	144.1	140.4
82.5°	158.8	166.2	181.0	173.6	171.8	160.7	145.9	120.1	97.9	85.0	81.3
85°	55.4	61.0	73.9	88.7	94.2	92.4	83.1	66.5	51.7	42.5	38.8
87.5°	12.9	12.9	14.8	12.9	12.9	14.8	12.9	12.9	12.9	9.2	7.4
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)