

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: P528416

Luminaire Tested: **GALN-SA3C-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528416
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-SA3C-730-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA 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: 16170 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

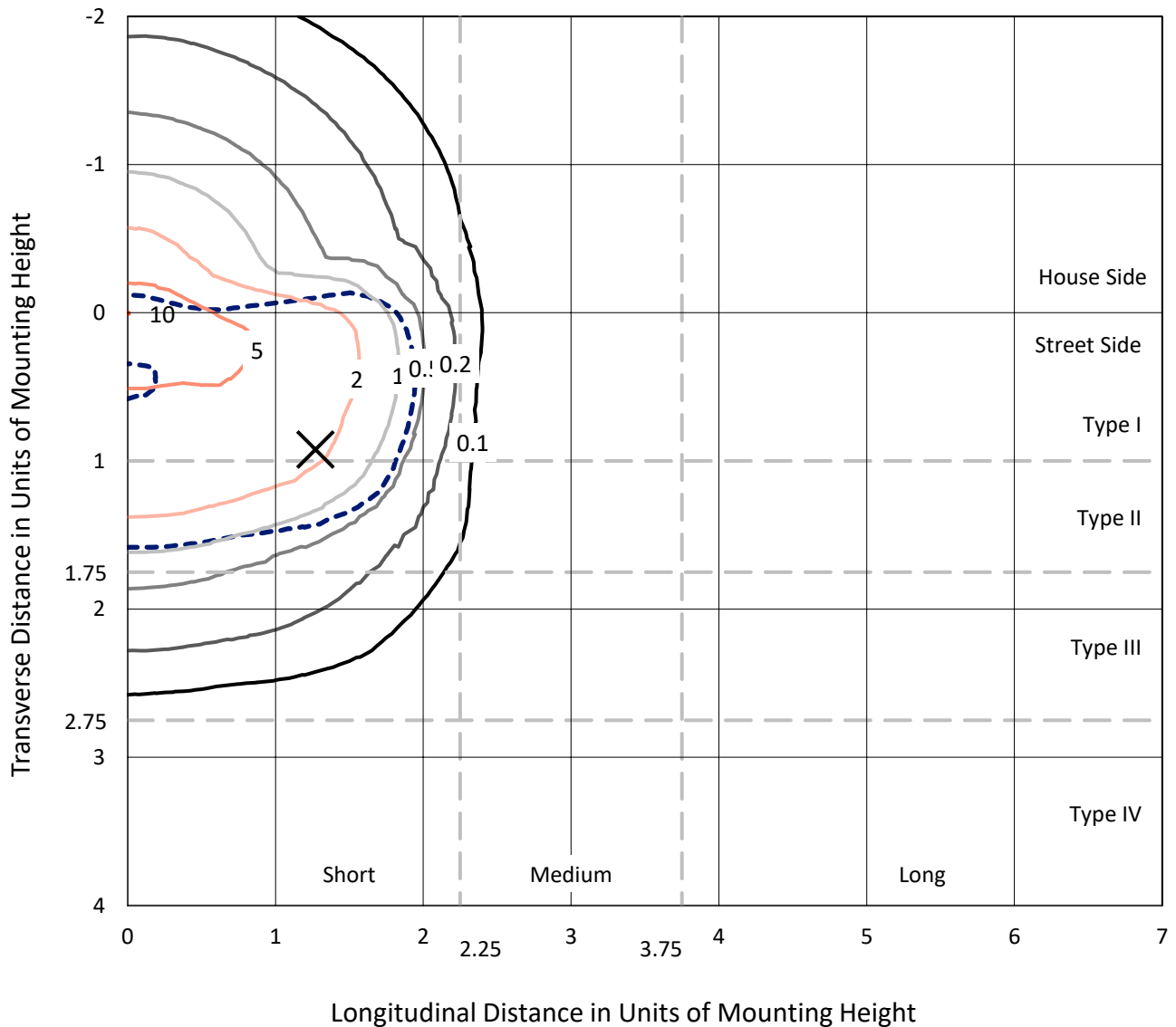
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528416
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Iso-Footcandle Lines of Horizontal Illumination

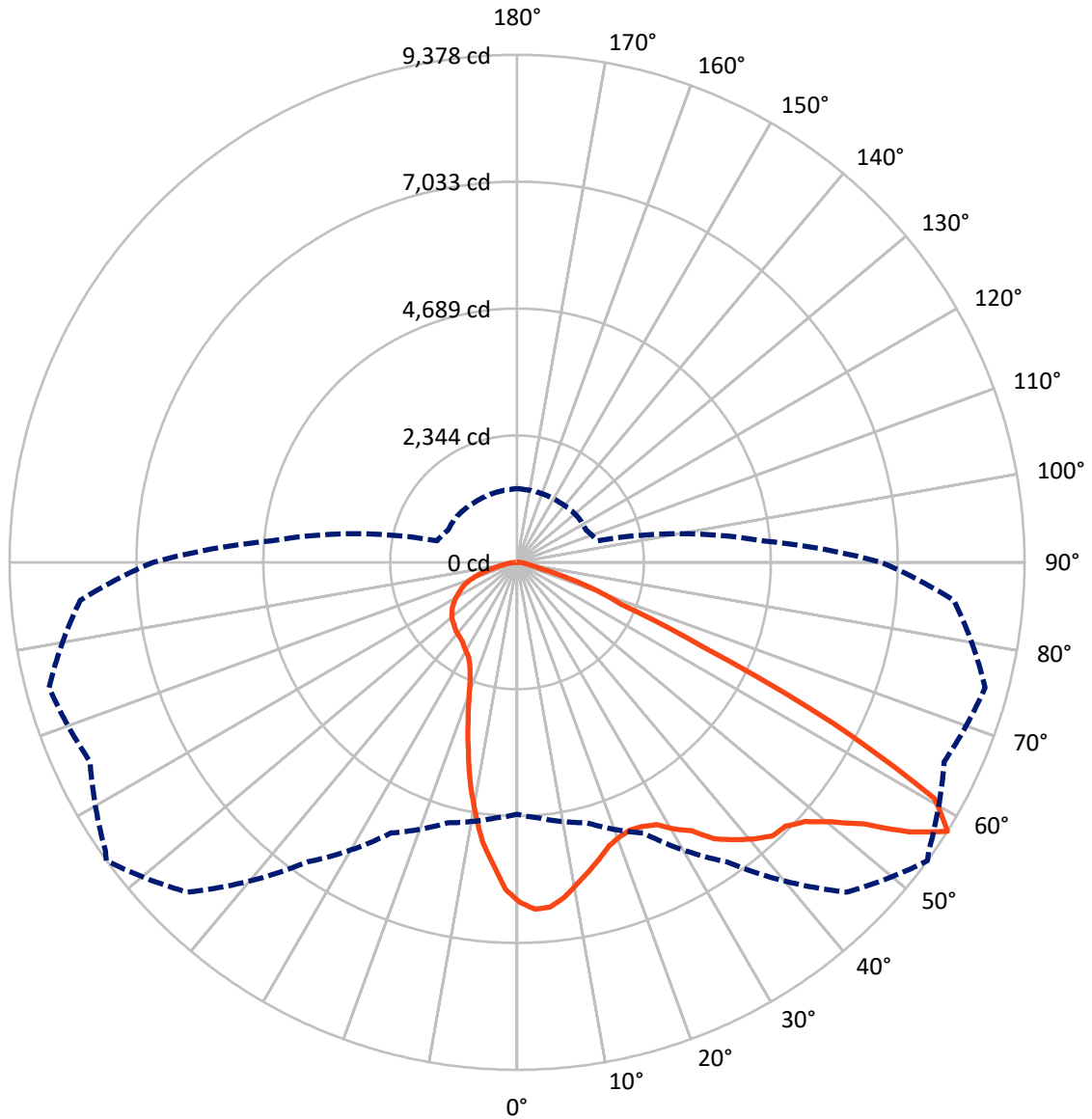
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

REPORT NUMBER: P528416
CATALOG NUMBER: GALN-SA3C-730-U-SL3-GRSWH

Luminous Intensity Polar Plot



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

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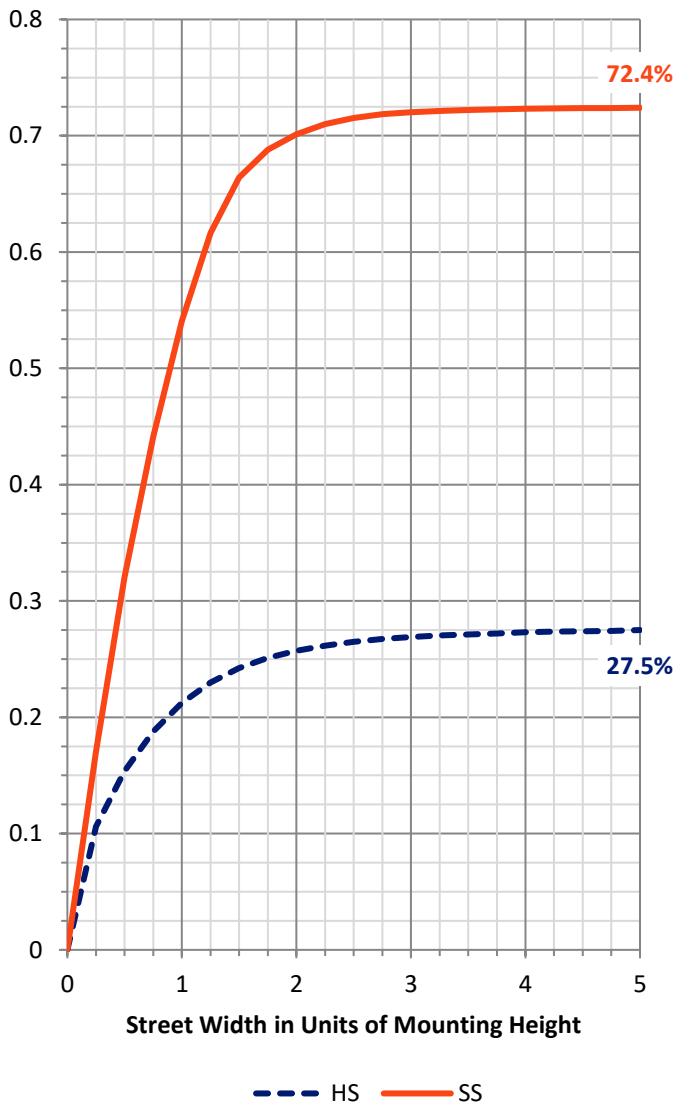
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4473.5	0.0	4473.5
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	11696.5	0.0	11696.5
	% Fixture	72.3	0.0	72.3
Total	Lumens	16170.0	0.0	16170.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.0	3.4
10°-20°	1255.0	7.8
20°-30°	1763.3	10.9
30°-40°	2465.1	15.2
40°-50°	3337.3	20.6
50°-60°	4064.9	25.1
60°-70°	2117.2	13.1
70°-80°	542.5	3.4
80°-90°	82.8	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°	16170.0	100.0
0°-180°	16170.0	100.0

Coefficient of Utilization

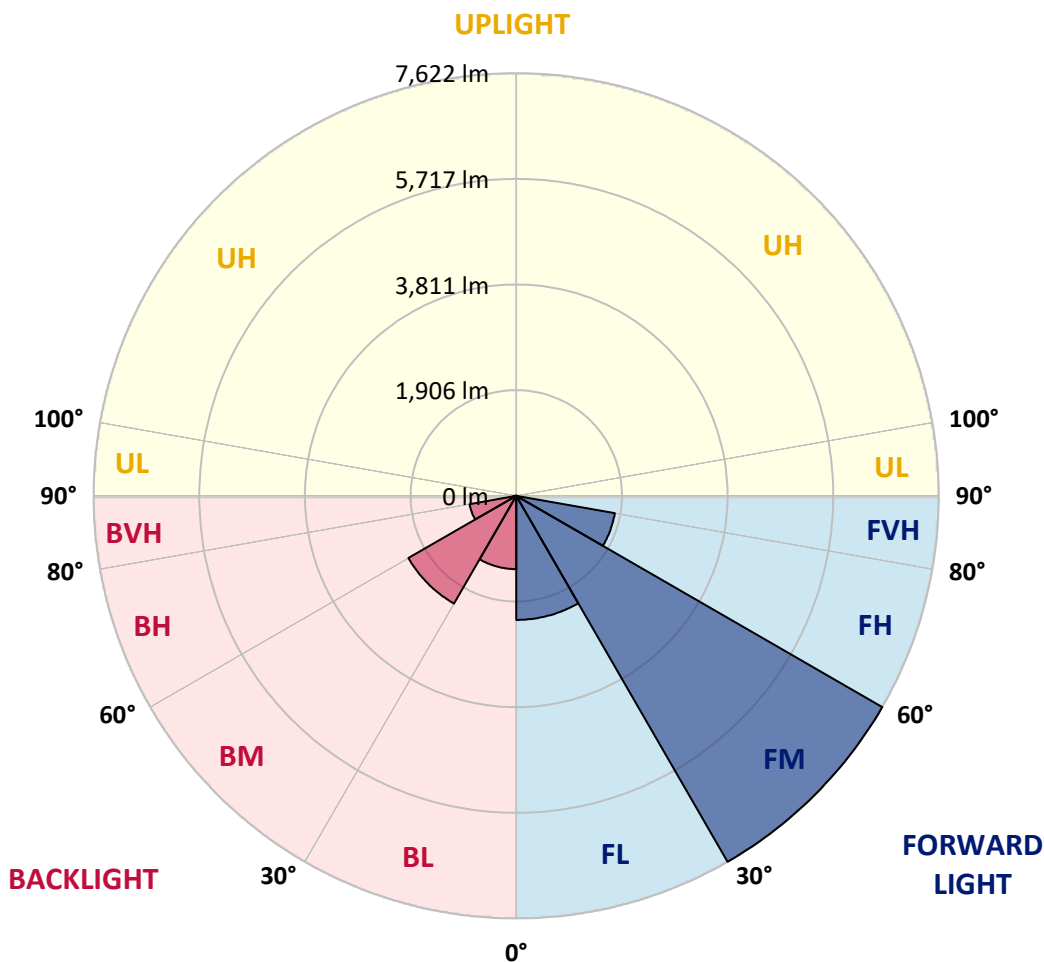


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2238.1	13.8			
FM (30°-60°)	7622.0	47.1			
FH (60°-80°)	1805.0	11.2			G2/5000
FVH (80°-90°)	31.3	0.2			G1/100
BL (0°-30°)	1322.2	8.2	B3/2500		
BM (30°-60°)	2245.2	13.9	B2/2500		
BH (60°-80°)	854.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	51.5	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°	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1
2.5°	6463.8	6438.9	6443.1	6476.3	6434.7	6418.1	6418.1	6337.1	6343.3	6287.2	6272.6
5°	6314.2	6256.0	6295.5	6345.4	6353.7	6370.3	6397.3	6376.5	6318.3	6258.1	6160.4
7.5°	5923.5	5975.4	5990.0	6025.3	6100.1	6168.7	6253.9	6195.7	6193.6	6133.4	6075.2
10°	5580.5	5549.3	5628.3	5680.3	5805.0	5919.3	6050.2	6044.0	6075.2	6006.6	5906.8
12.5°	5239.7	5214.7	5252.1	5370.6	5545.2	5711.5	5867.3	5809.1	5975.4	5962.9	5748.9
15°	4878.0	4896.7	4950.8	5060.9	5289.5	5489.1	5686.5	5688.6	5836.2	5886.0	5599.2
17.5°	4624.4	4603.7	4672.3	4836.4	5040.1	5279.1	5503.6	5549.3	5775.9	5805.0	5553.5
20°	4435.3	4464.4	4553.8	4636.9	4871.8	5160.7	5414.2	5430.9	5763.4	5842.4	5480.8
22.5°	4389.6	4373.0	4402.1	4537.2	4730.4	5044.3	5366.4	5428.8	5761.3	5829.9	5343.6
25°	4341.8	4395.8	4393.7	4528.8	4670.2	4950.8	5405.9	5474.5	5871.5	5894.4	5362.3
27.5°	4449.9	4443.6	4501.8	4512.2	4686.8	4975.7	5489.1	5541.0	6054.4	6035.7	5376.8
30°	4557.9	4526.8	4562.1	4684.7	4765.8	5119.1	5717.7	5713.5	6291.3	6278.9	5422.6
32.5°	4691.0	4676.4	4699.3	4807.3	4944.5	5310.3	5911.0	6033.6	6532.4	6611.4	5580.5
35°	4715.9	4776.2	4830.2	4975.7	5171.1	5620.0	6274.7	6376.5	6810.9	7058.3	5881.9
37.5°	4873.9	4896.7	5023.5	5281.2	5460.0	6033.6	6505.4	6569.8	7064.5	7345.1	6199.9
40°	5042.2	5069.2	5260.4	5530.6	5775.9	6303.8	6721.6	6742.3	7145.6	7565.4	6407.7
42.5°	5270.8	5295.8	5484.9	5823.7	6152.1	6534.5	6912.8	6935.6	7139.3	7819.0	6738.2
45°	5507.8	5568.0	5790.4	6174.9	6470.1	6804.7	6956.4	7049.9	7197.5	8045.5	7006.3
47.5°	5840.3	5896.4	6079.3	6455.5	6800.5	7041.6	7158.0	7249.5	7336.8	8243.0	7178.8
50°	6193.6	6204.0	6426.4	6767.3	7020.8	7309.7	7534.2	7565.4	7519.7	8471.6	7471.9
52.5°	6453.4	6486.7	6659.2	6991.8	7370.0	7725.4	8033.0	8066.3	7976.9	8556.8	7571.6
55°	6023.2	6004.5	6285.1	6727.8	7604.9	8344.8	8791.6	8816.6	8309.5	8820.7	7897.9
57.5°	4655.6	4745.0	4984.0	5518.2	6756.9	8619.1	9377.8	9288.4	8708.5	8953.8	8105.8
60°	3383.6	3362.9	3522.9	3880.4	5092.1	7428.2	8866.5	8957.9	8382.2	8070.4	6684.1
62.5°	2756.0	2726.9	2739.3	2751.8	3286.0	4930.0	6563.6	6561.5	6455.5	5800.8	4508.1
65°	2203.1	2271.7	2277.9	2371.5	2440.0	2945.1	3803.5	4007.2	3489.6	2862.0	2076.3
67.5°	1660.6	1635.7	1718.8	2051.4	2180.2	2126.2	2076.3	2099.2	1492.3	1076.6	1014.3
70°	978.9	968.5	1068.3	1429.9	1795.7	1689.7	1565.0	1567.1	1024.7	752.4	837.6
72.5°	536.2	534.1	554.9	725.4	1020.5	1060.0	939.4	968.5	611.1	609.0	654.7
75°	299.3	293.1	286.8	320.1	367.9	388.7	397.0	401.1	419.8	469.7	488.4
77.5°	110.2	106.0	106.0	122.6	155.9	195.4	247.3	251.5	297.2	340.9	359.6
80°	37.4	41.6	56.1	76.9	103.9	139.3	168.4	172.5	209.9	239.0	245.3
82.5°	22.9	24.9	37.4	54.0	74.8	97.7	124.7	126.8	155.9	174.6	182.9
85°	10.4	12.5	20.8	33.3	47.8	64.4	66.5	66.5	64.4	66.5	62.4
87.5°	0.0	0.0	4.2	4.2	4.2	6.2	8.3	6.2	10.4	12.5	12.5
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°	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1
2.5°	6229.0	6206.1	6135.4	6073.1	6054.4	5971.3	5848.6	5863.2	5773.8	5815.4	5771.7
5°	6143.8	6066.9	5886.0	5809.1	5607.5	5516.1	5453.7	5297.9	5225.1	5210.6	5148.2
7.5°	5925.5	5877.7	5651.2	5443.3	5229.3	5046.4	4811.5	4651.5	4537.2	4506.0	4414.5
10°	5753.0	5647.0	5333.2	5017.3	4711.7	4393.7	4088.2	3849.2	3732.8	3597.7	3552.0
12.5°	5582.6	5422.6	4998.6	4593.3	4198.4	3797.2	3427.3	3136.3	2882.7	2822.5	2801.7
15°	5476.6	5198.1	4699.3	4210.8	3649.7	3125.9	2756.0	2564.8	2408.9	2344.4	2390.2
17.5°	5337.3	5013.1	4412.5	3761.9	3144.6	2662.4	2352.8	2234.3	2178.2	2184.4	2165.7
20°	5162.8	4838.5	4036.3	3354.5	2693.6	2309.1	2132.4	2088.8	2097.1	2111.7	2105.4
22.5°	5038.1	4626.5	3764.0	2938.9	2327.8	2113.7	2041.0	2009.8	2036.8	2049.3	2038.9
25°	4942.4	4445.7	3433.5	2571.0	2115.8	2003.6	1970.3	1968.2	2009.8	2026.4	2016.1
27.5°	4855.2	4277.4	3105.1	2290.4	1974.5	1918.4	1908.0	1932.9	1959.9	1976.6	1991.1
30°	4803.2	4148.5	2797.5	2055.5	1903.8	1876.8	1858.1	1881.0	1895.5	1912.1	1903.8
32.5°	4853.1	4057.0	2500.3	1922.5	1845.6	1818.6	1843.5	1829.0	1853.9	1868.5	1845.6
35°	5009.0	3976.0	2288.3	1851.9	1779.1	1789.5	1793.7	1787.4	1797.8	1785.3	1812.4
37.5°	5162.8	3946.9	2093.0	1791.6	1747.9	1747.9	1743.8	1731.3	1752.1	1747.9	1760.4
40°	5358.1	3965.6	1926.7	1727.2	1718.8	1714.7	1698.1	1696.0	1687.7	1689.7	1693.9
42.5°	5528.6	4007.2	1831.1	1685.6	1691.8	1700.1	1669.0	1644.0	1654.4	1633.6	1633.6
45°	5709.4	4044.6	1745.9	1656.5	1650.3	1648.2	1623.2	1608.7	1600.4	1602.4	1621.2
47.5°	5994.1	4098.6	1681.4	1617.0	1621.2	1590.0	1583.7	1565.0	1573.4	1585.8	1587.9
50°	6195.7	4212.9	1631.5	1571.3	1585.8	1565.0	1527.6	1519.3	1519.3	1540.1	1535.9
52.5°	6337.1	4373.0	1583.7	1521.4	1527.6	1511.0	1498.5	1479.8	1467.4	1496.5	1511.0
55°	6769.4	4639.0	1571.3	1479.8	1477.7	1461.1	1438.3	1419.5	1413.3	1417.5	1446.6
57.5°	6727.8	4555.9	1531.8	1407.1	1402.9	1380.1	1357.2	1351.0	1348.9	1353.0	1361.4
60°	5462.0	3364.9	1367.6	1323.9	1317.7	1313.6	1290.7	1265.7	1253.3	1265.7	1255.4
62.5°	3614.3	2253.0	1205.5	1224.2	1228.3	1217.9	1180.5	1155.6	1159.7	1174.3	1151.4
65°	1775.0	1323.9	1093.2	1143.1	1147.3	1118.2	1082.8	1053.8	1039.2	1051.7	1041.3
67.5°	1014.3	1012.2	1001.8	1053.8	1051.7	1022.6	966.5	941.5	916.6	920.7	914.5
70°	860.5	877.1	897.9	929.0	927.0	893.7	827.2	808.5	773.2	769.0	758.6
72.5°	677.6	706.7	752.4	775.2	756.5	715.0	671.3	640.1	609.0	590.3	596.5
75°	503.0	544.5	569.5	584.0	554.9	532.1	496.7	459.3	421.9	405.3	399.1
77.5°	365.8	378.3	401.1	411.5	392.8	370.0	349.2	311.8	276.4	253.6	247.3
80°	255.6	264.0	280.6	280.6	280.6	270.2	243.2	205.8	182.9	162.1	158.0
82.5°	178.7	187.1	203.7	195.4	193.3	180.8	164.2	135.1	110.2	95.6	91.4
85°	62.4	68.6	83.1	99.8	106.0	103.9	93.5	74.8	58.2	47.8	43.6
87.5°	14.5	14.5	16.6	14.5	14.5	16.6	14.5	14.5	14.5	10.4	8.3
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)