

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: P530886

Luminaire Tested: **GALN-SA6A-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530886
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-SA6A-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA 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: 16865 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

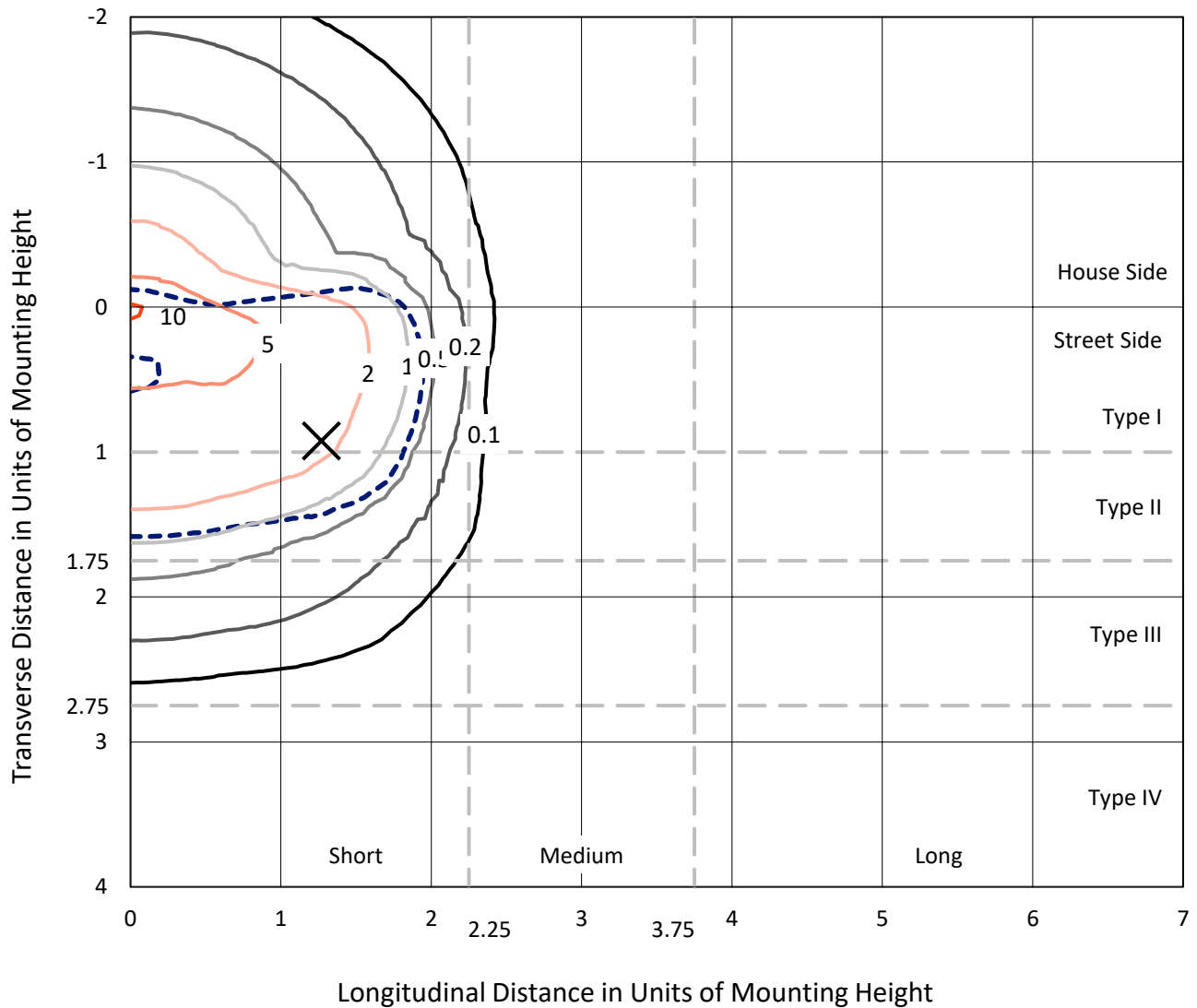
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

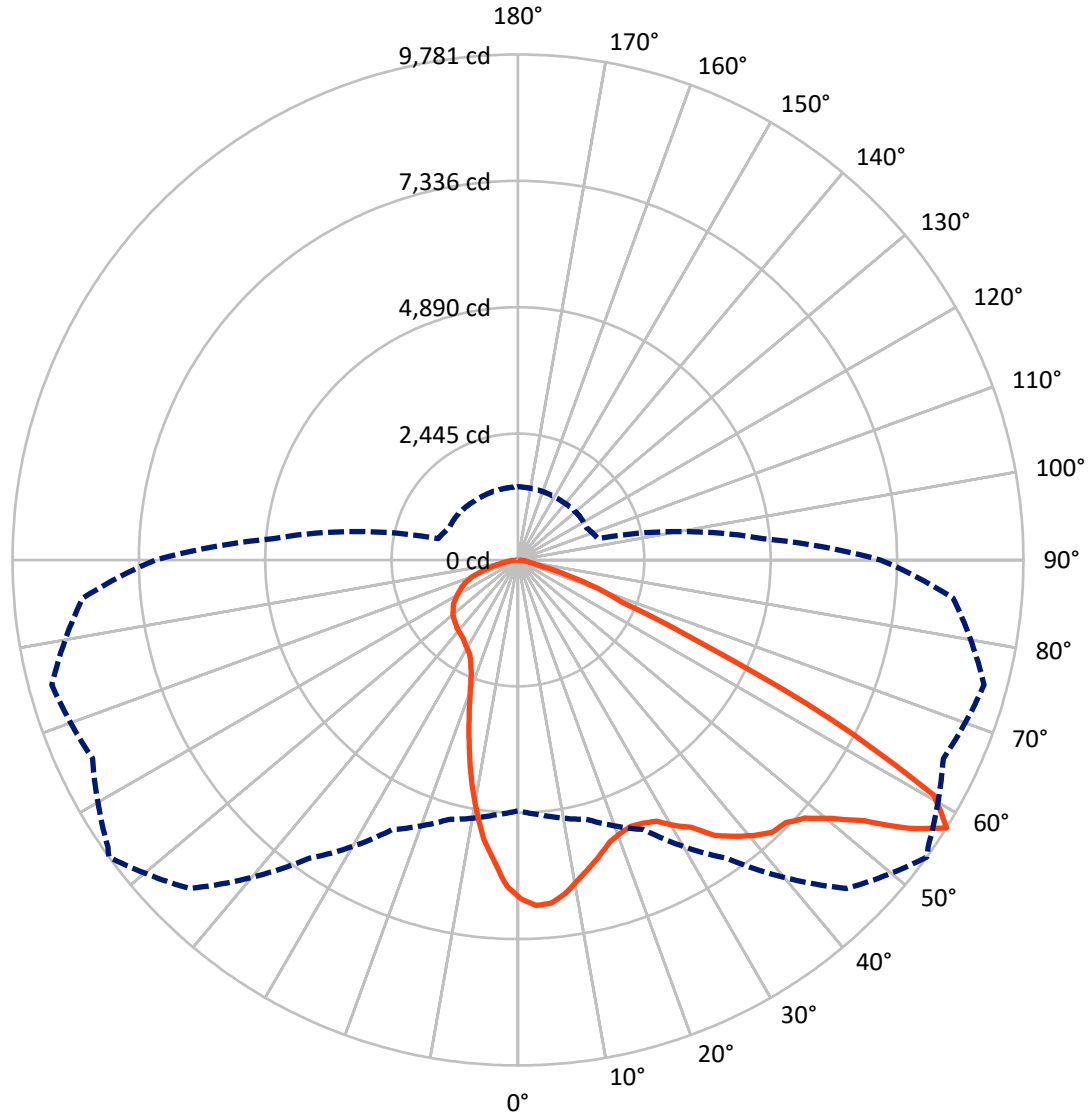
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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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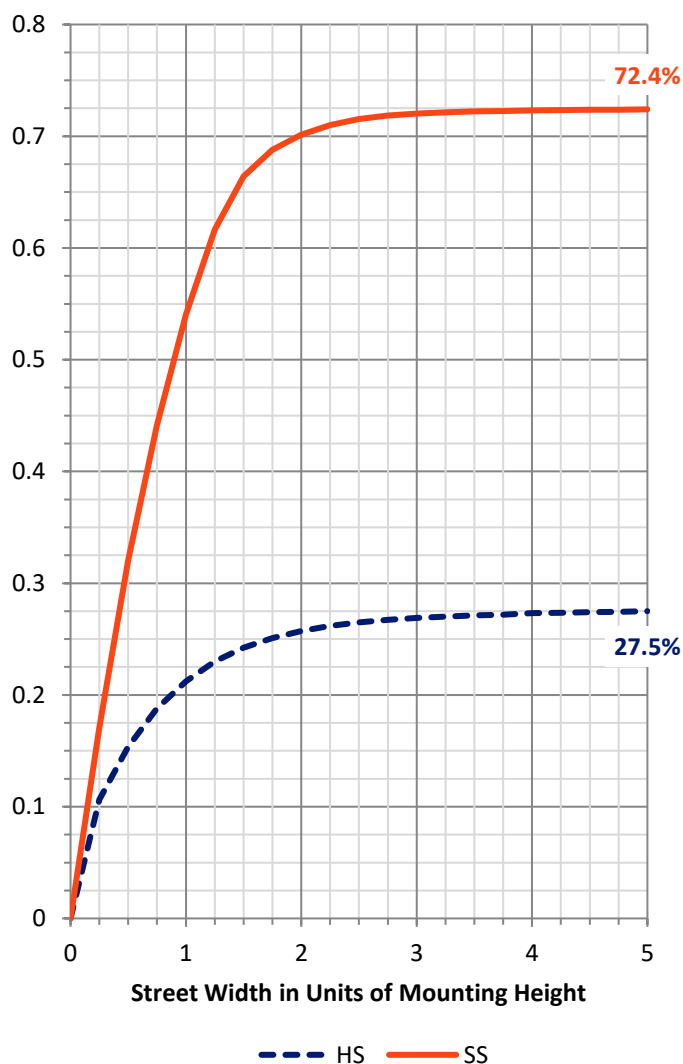
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4665.8	0.0	4665.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	12199.2	0.0	12199.2
	% Fixture	72.3	0.0	72.3
Total	Lumens	16865.0	0.0	16865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.3	3.4
10°-20°	1308.9	7.8
20°-30°	1839.1	10.9
30°-40°	2571.0	15.2
40°-50°	3480.7	20.6
50°-60°	4239.6	25.1
60°-70°	2208.2	13.1
70°-80°	565.8	3.4
80°-90°	86.3	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°	16865.0	100.0
0°-180°	16865.0	100.0

Coefficient of Utilization



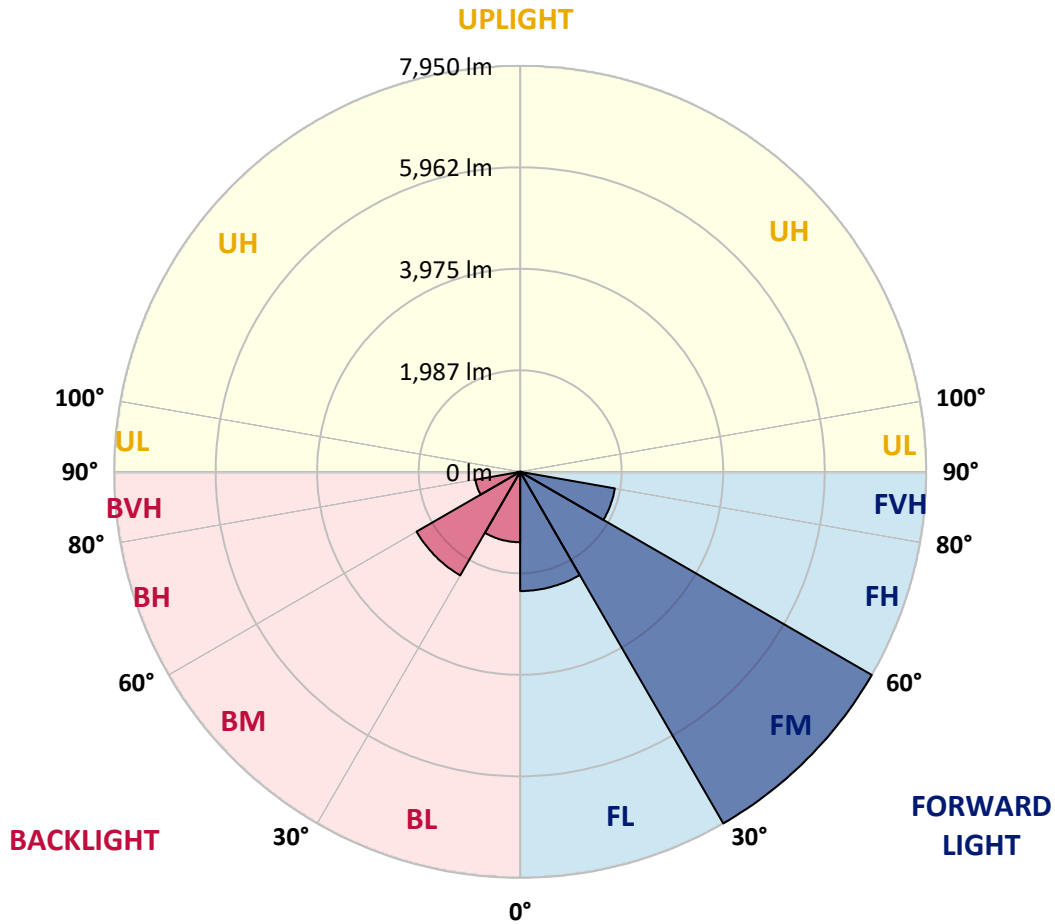
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2334.3	13.8			
FM (30°-60°)	7949.6	47.1			
FH (60°-80°)	1882.6	11.2			G2/5000
FVH (80°-90°)	32.6	0.2			G1/100
BL (0°-30°)	1379.0	8.2	B3/2500		
BM (30°-60°)	2341.7	13.9	B2/2500		
BH (60°-80°)	891.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	53.7	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°	6555.2	6555.2	6555.2	6555.2	6555.2	6555.2	6555.2	6555.2	6555.2	6555.2	6555.2
2.5°	6741.7	6715.6	6720.0	6754.7	6711.3	6694.0	6694.0	6609.4	6615.9	6557.4	6542.2
5°	6585.6	6524.9	6566.1	6618.1	6626.8	6644.1	6672.3	6650.6	6589.9	6527.1	6425.2
7.5°	6178.0	6232.2	6247.4	6284.3	6362.3	6433.8	6522.7	6462.0	6459.9	6397.0	6336.3
10°	5820.4	5787.9	5870.2	5924.4	6054.5	6173.7	6310.3	6303.8	6336.3	6264.8	6160.7
12.5°	5464.9	5438.8	5477.9	5601.4	5783.5	5956.9	6119.5	6058.8	6232.2	6219.2	5996.0
15°	5087.7	5107.2	5163.5	5278.4	5516.9	5725.0	5930.9	5933.1	6087.0	6139.0	5839.9
17.5°	4823.2	4801.5	4873.1	5044.3	5256.8	5506.0	5740.2	5787.9	6024.1	6054.5	5792.2
20°	4625.9	4656.3	4749.5	4836.2	5081.2	5382.5	5647.0	5664.3	6011.1	6093.5	5716.3
22.5°	4578.3	4560.9	4591.3	4732.2	4933.8	5261.1	5597.1	5662.1	6009.0	6080.5	5573.2
25°	4528.4	4584.8	4582.6	4723.5	4870.9	5163.5	5638.3	5709.8	6123.9	6147.7	5592.8
27.5°	4641.1	4634.6	4695.3	4706.2	4888.2	5189.6	5725.0	5779.2	6314.6	6295.1	5607.9
30°	4753.8	4721.3	4758.2	4886.1	4970.6	5339.1	5963.4	5959.1	6561.7	6548.7	5655.6
32.5°	4892.6	4877.4	4901.3	5014.0	5157.0	5538.6	6165.0	6292.9	6813.2	6895.6	5820.4
35°	4918.6	4981.5	5037.8	5189.6	5393.3	5861.6	6544.4	6650.6	7103.7	7361.6	6134.7
37.5°	5083.3	5107.2	5239.4	5508.2	5694.6	6292.9	6785.0	6852.2	7368.1	7660.8	6466.4
40°	5258.9	5287.1	5486.5	5768.3	6024.1	6574.7	7010.5	7032.1	7452.7	7890.6	6683.1
42.5°	5497.4	5523.4	5720.7	6074.0	6416.5	6815.4	7209.9	7233.7	7446.2	8155.0	7027.8
45°	5744.5	5807.4	6039.3	6440.3	6748.2	7097.2	7255.4	7353.0	7506.9	8391.3	7307.4
47.5°	6091.3	6149.9	6340.6	6733.0	7092.8	7344.3	7465.7	7561.1	7652.1	8597.2	7487.4
50°	6459.9	6470.7	6702.6	7058.1	7322.6	7623.9	7858.0	7890.6	7842.9	8835.7	7793.0
52.5°	6730.8	6765.5	6945.4	7292.3	7686.8	8057.5	8378.3	8413.0	8319.8	8924.6	7897.1
55°	6282.1	6262.6	6555.2	7017.0	7931.7	8703.5	9169.5	9195.5	8666.6	9199.9	8237.4
57.5°	4855.7	4948.9	5198.2	5755.3	7047.3	8989.6	9780.8	9687.6	9082.8	9338.6	8454.2
60°	3529.1	3507.4	3674.3	4047.2	5311.0	7747.5	9247.6	9342.9	8742.5	8417.3	6971.4
62.5°	2874.4	2844.1	2857.1	2870.1	3427.2	5141.9	6845.7	6843.5	6733.0	6050.1	4701.8
65°	2297.8	2369.3	2375.8	2473.4	2544.9	3071.7	3967.0	4179.4	3639.6	2985.0	2165.6
67.5°	1732.0	1706.0	1792.7	2139.6	2274.0	2217.6	2165.6	2189.4	1556.4	1122.9	1057.9
70°	1021.0	1010.2	1114.2	1491.4	1872.9	1762.4	1632.3	1634.5	1068.7	784.7	873.6
72.5°	559.3	557.1	578.8	756.5	1064.4	1105.5	979.8	1010.2	637.3	635.1	682.8
75°	312.2	305.7	299.1	333.8	383.7	405.4	414.0	418.4	437.9	489.9	509.4
77.5°	114.9	110.6	110.6	127.9	162.6	203.8	258.0	262.3	310.0	355.5	375.0
80°	39.0	43.4	58.5	80.2	108.4	145.2	175.6	179.9	218.9	249.3	255.8
82.5°	23.8	26.0	39.0	56.4	78.0	101.9	130.1	132.2	162.6	182.1	190.8
85°	10.8	13.0	21.7	34.7	49.9	67.2	69.4	69.4	67.2	69.4	65.0
87.5°	0.0	0.0	4.3	4.3	4.3	6.5	8.7	6.5	10.8	13.0	13.0
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°	6555.2	6555.2	6555.2	6555.2	6555.2	6555.2	6555.2	6555.2	6555.2	6555.2	6555.2
2.5°	6496.7	6472.9	6399.2	6334.1	6314.6	6227.9	6100.0	6115.2	6022.0	6065.3	6019.8
5°	6407.8	6327.6	6139.0	6058.8	5848.6	5753.2	5688.1	5525.6	5449.7	5434.5	5369.5
7.5°	6180.2	6130.4	5894.1	5677.3	5454.0	5263.3	5018.3	4851.4	4732.2	4699.7	4604.3
10°	6000.3	5889.7	5562.4	5232.9	4914.3	4582.6	4263.9	4014.6	3893.3	3752.4	3704.7
12.5°	5822.5	5655.6	5213.4	4790.7	4378.8	3960.5	3574.6	3271.1	3006.6	2943.8	2922.1
15°	5712.0	5421.5	4901.3	4391.8	3806.5	3260.3	2874.4	2675.0	2512.4	2445.2	2492.9
17.5°	5566.7	5228.6	4602.1	3923.6	3279.8	2776.9	2453.9	2330.3	2271.8	2278.3	2258.8
20°	5384.7	5046.5	4209.7	3498.7	2809.4	2408.4	2224.1	2178.6	2187.2	2202.4	2195.9
22.5°	5254.6	4825.4	3925.8	3065.2	2427.9	2204.6	2128.7	2096.2	2124.4	2137.4	2126.5
25°	5154.9	4636.8	3581.1	2681.5	2206.8	2089.7	2055.0	2052.8	2096.2	2113.5	2102.7
27.5°	5063.8	4461.2	3238.6	2388.8	2059.3	2000.8	1990.0	2016.0	2044.2	2061.5	2076.7
30°	5009.6	4326.8	2917.8	2143.9	1985.6	1957.5	1938.0	1961.8	1977.0	1994.3	1985.6
32.5°	5061.7	4231.4	2607.8	2005.2	1924.9	1896.8	1922.8	1907.6	1933.6	1948.8	1924.9
35°	5224.2	4146.9	2386.7	1931.5	1855.6	1866.4	1870.8	1864.3	1875.1	1862.1	1890.3
37.5°	5384.7	4116.5	2182.9	1868.6	1823.1	1823.1	1818.7	1805.7	1827.4	1823.1	1836.1
40°	5588.4	4136.0	2009.5	1801.4	1792.7	1788.4	1771.0	1768.9	1760.2	1762.4	1766.7
42.5°	5766.2	4179.4	1909.8	1758.0	1764.5	1773.2	1740.7	1714.7	1725.5	1703.8	1703.8
45°	5954.8	4218.4	1820.9	1727.7	1721.2	1719.0	1693.0	1677.8	1669.2	1671.3	1690.8
47.5°	6251.7	4274.8	1753.7	1686.5	1690.8	1658.3	1651.8	1632.3	1641.0	1654.0	1656.1
50°	6462.0	4394.0	1701.7	1638.8	1654.0	1632.3	1593.3	1584.6	1584.6	1606.3	1602.0
52.5°	6609.4	4560.9	1651.8	1586.8	1593.3	1575.9	1562.9	1543.4	1530.4	1560.8	1575.9
55°	7060.3	4838.4	1638.8	1543.4	1541.3	1523.9	1500.1	1480.6	1474.1	1478.4	1508.7
57.5°	7017.0	4751.7	1597.6	1467.6	1463.2	1439.4	1415.5	1409.0	1406.9	1411.2	1419.9
60°	5696.8	3509.6	1426.4	1380.8	1374.3	1370.0	1346.2	1320.2	1307.1	1320.2	1309.3
62.5°	3769.7	2349.8	1257.3	1276.8	1281.1	1270.3	1231.3	1205.3	1209.6	1224.8	1200.9
65°	1851.2	1380.8	1140.2	1192.3	1196.6	1166.2	1129.4	1099.0	1083.9	1096.9	1086.0
67.5°	1057.9	1055.7	1044.8	1099.0	1096.9	1066.5	1008.0	982.0	956.0	960.3	953.8
70°	897.4	914.8	936.5	969.0	966.8	932.1	862.8	843.2	806.4	802.1	791.2
72.5°	706.7	737.0	784.7	808.6	789.1	745.7	700.2	667.7	635.1	615.6	622.1
75°	524.6	567.9	594.0	609.1	578.8	554.9	518.1	479.1	440.1	422.7	416.2
77.5°	381.5	394.5	418.4	429.2	409.7	385.9	364.2	325.2	288.3	264.5	258.0
80°	266.6	275.3	292.6	292.6	292.6	281.8	253.6	214.6	190.8	169.1	164.7
82.5°	186.4	195.1	212.4	203.8	201.6	188.6	171.3	140.9	114.9	99.7	95.4
85°	65.0	71.5	86.7	104.1	110.6	108.4	97.5	78.0	60.7	49.9	45.5
87.5°	15.2	15.2	17.3	15.2	15.2	17.3	15.2	15.2	15.2	10.8	8.7
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)