

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: P529282

Luminaire Tested: **GALN-SA4B-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15719 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

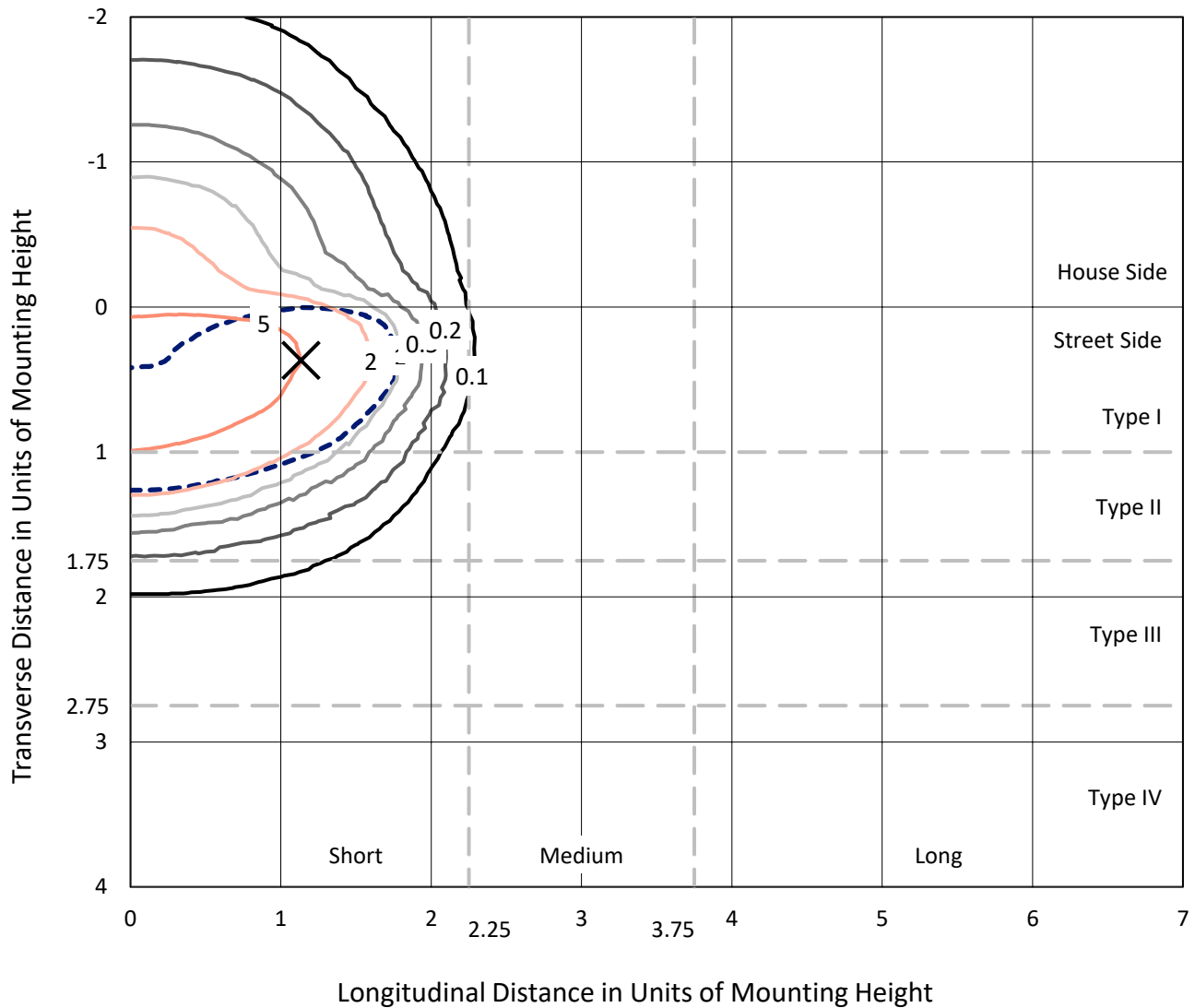
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

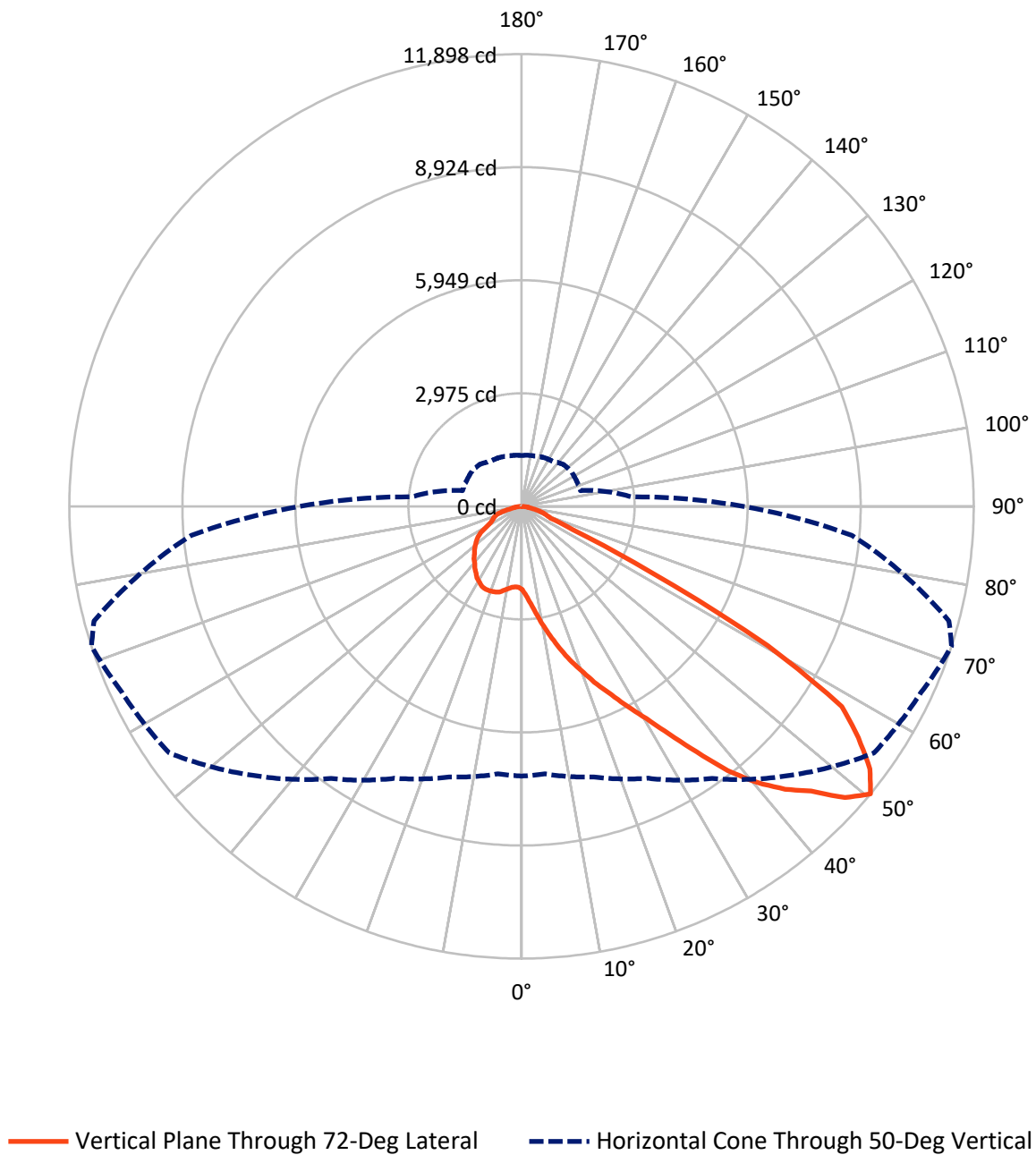


Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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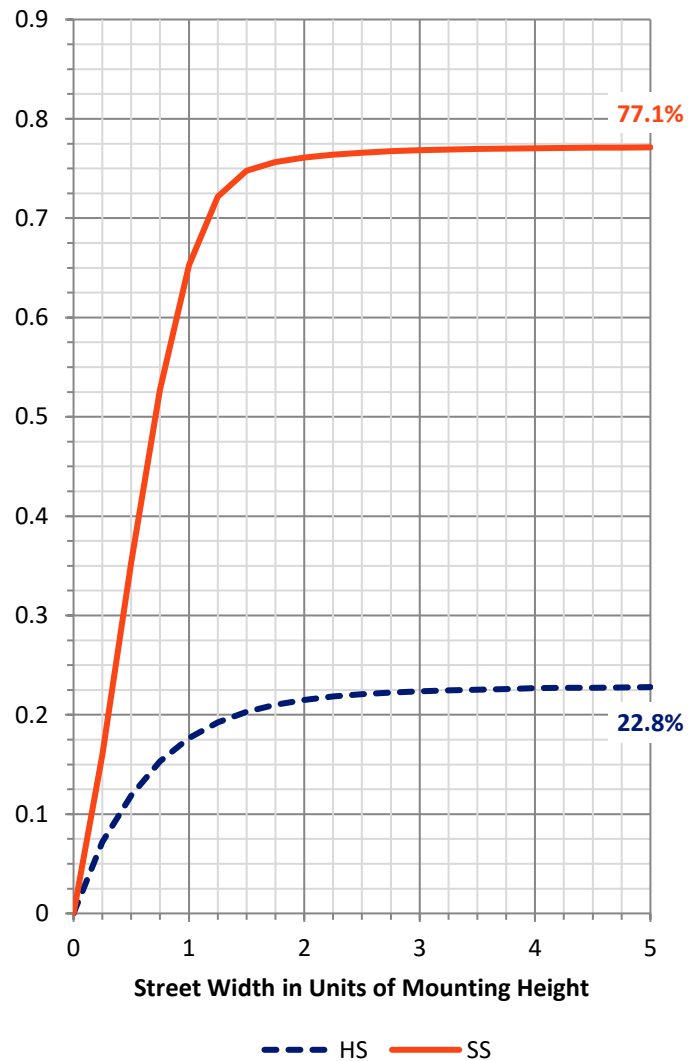
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3601.3	0.0	3601.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	12117.7	0.0	12117.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	15719.0	0.0	15719.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.4	1.6
10°-20°	962.2	6.1
20°-30°	1865.7	11.9
30°-40°	3090.8	19.7
40°-50°	4324.6	27.5
50°-60°	3648.4	23.2
60°-70°	1112.0	7.1
70°-80°	390.1	2.5
80°-90°	67.8	0.4
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°	15719.0	100.0
0°-180°	15719.0	100.0

Coefficient of Utilization



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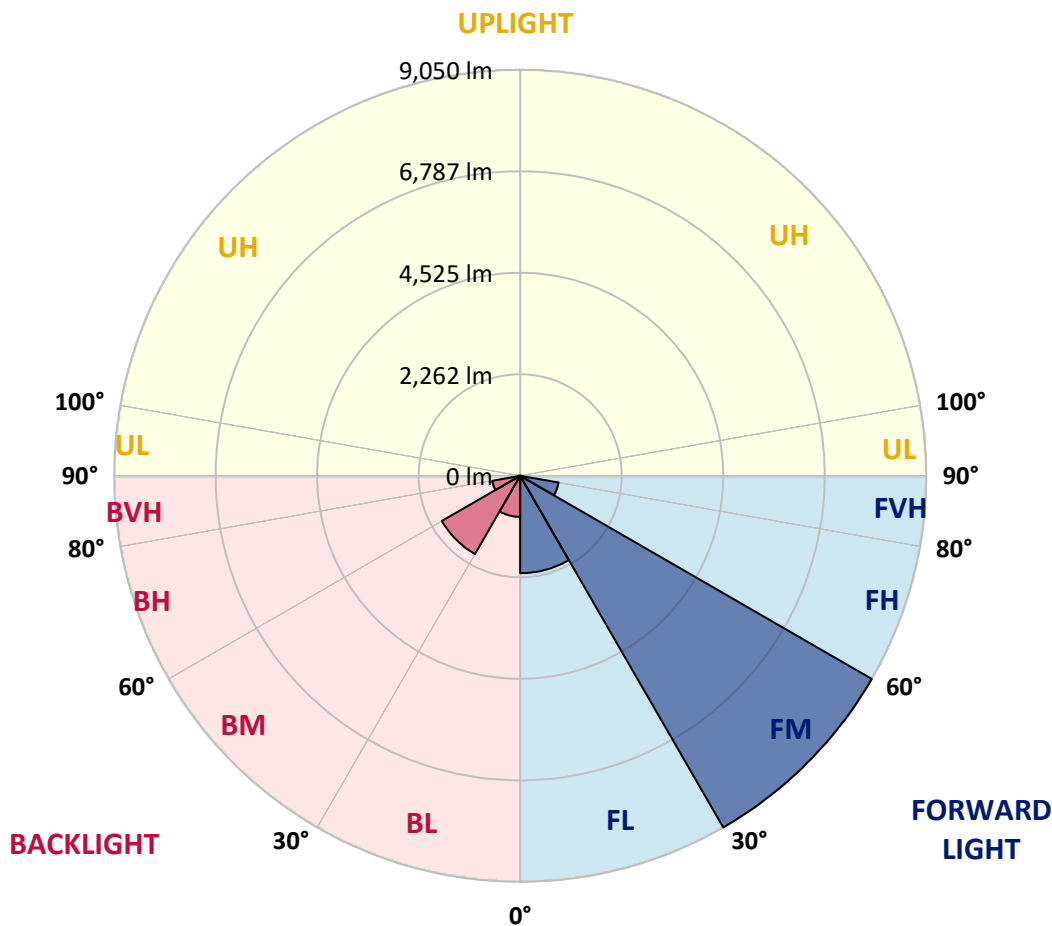
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2169.8	13.8			
FM	(30°-60°)	9049.9	57.6			
FH	(60°-80°)	867.7	5.5			G1/1800
FVH	(80°-90°)	30.4	0.2			G1/100
BL	(0°-30°)	915.5	5.8	B2/1000		
BM	(30°-60°)	2013.9	12.8	B2/2500		
BH	(60°-80°)	634.5	4.0	B2/1000		G2/1000
BVH	(80°-90°)	37.4	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2
2.5°	2814.5	2797.0	2744.5	2727.0	2664.8	2551.9	2513.0	2398.3	2349.7	2304.9	2252.4
5°	3559.5	3477.8	3472.0	3372.8	3228.8	3145.2	2896.2	2729.0	2575.3	2497.5	2353.6
7.5°	4034.1	4036.0	4036.0	3954.4	3839.6	3627.6	3403.9	3102.4	2870.9	2756.2	2511.1
10°	4485.4	4446.5	4425.1	4417.3	4339.5	4133.3	3894.1	3520.6	3203.6	3069.3	2629.8
12.5°	4804.4	4771.3	4819.9	4794.6	4738.2	4604.0	4378.4	3952.4	3555.6	3374.7	2820.4
15°	4956.1	4979.4	5018.3	5088.3	5063.1	5012.5	4763.5	4395.9	3934.9	3730.7	2989.6
17.5°	5189.5	5125.3	5172.0	5259.5	5329.5	5306.2	5164.2	4716.8	4310.3	4059.4	3217.2
20°	5352.9	5315.9	5339.3	5440.4	5492.9	5625.2	5551.3	5137.0	4670.1	4405.6	3485.6
22.5°	5819.7	5765.2	5689.4	5704.9	5724.4	5817.7	5835.3	5598.0	5088.3	4808.2	3740.4
25°	6395.4	6344.9	6255.4	6164.0	6107.6	6090.1	6150.4	5959.7	5489.0	5199.2	4014.7
27.5°	7029.5	6943.9	6887.5	6698.9	6547.2	6523.8	6494.6	6391.5	5963.6	5650.5	4323.9
30°	7646.1	7578.0	7502.2	7200.7	7043.1	7017.9	6873.9	6903.1	6479.1	6130.9	4674.0
32.5°	8112.9	8118.8	7945.7	7718.1	7570.3	7436.1	7383.5	7467.2	7140.4	6860.3	5065.0
35°	8490.3	8507.8	8342.5	8136.3	7976.8	8070.2	8046.8	8085.7	7930.1	7587.8	5520.1
37.5°	8857.9	8770.4	8593.4	8494.2	8410.5	8564.2	8762.6	8795.7	8824.8	8422.2	6049.2
40°	8918.2	8926.0	8822.9	8892.9	8787.9	9019.4	9480.3	9437.5	9556.2	9204.1	6623.0
42.5°	8832.6	8850.1	8891.0	8990.2	9243.0	9521.2	10205.9	10030.8	10174.7	9861.6	7181.2
45°	8692.6	8620.6	8671.2	9048.5	9486.2	10104.7	10869.1	10733.0	10686.3	10423.7	7846.5
47.5°	8023.5	8097.4	8254.9	8719.8	9377.2	10205.9	11339.8	11308.7	11448.8	11264.0	8451.4
50°	7095.7	7066.5	7369.9	7893.1	8741.2	10007.5	11314.6	11596.6	11898.1	11641.3	8721.8
52.5°	5314.0	5469.6	5730.2	6379.9	7589.7	8926.0	10762.1	11232.9	11477.9	11423.5	8503.9
55°	3359.2	3405.8	3563.4	4335.6	5424.8	7163.7	9225.5	10316.7	10754.4	10958.6	8303.6
57.5°	1631.9	1544.4	1737.0	2357.4	3133.5	4818.0	7115.1	8986.3	9937.4	10307.0	7867.9
60°	851.9	885.0	960.9	1182.6	1620.3	2501.4	4434.8	5988.9	7441.9	8009.9	5963.6
62.5°	706.1	717.7	768.3	879.2	1077.6	1439.4	2264.1	2919.6	3794.9	4306.4	3392.2
65°	599.1	604.9	659.4	733.3	859.7	1013.4	1165.1	1219.6	1476.3	1515.2	1206.0
67.5°	499.9	505.7	564.1	634.1	715.8	756.6	795.5	791.6	820.8	809.2	807.2
70°	385.1	391.0	451.3	525.2	566.0	542.7	663.3	690.5	702.2	711.9	727.5
72.5°	278.1	289.8	336.5	389.0	367.6	422.1	546.6	587.4	603.0	608.8	628.3
75°	202.3	206.2	217.8	202.3	233.4	293.7	385.1	435.7	455.1	461.0	490.2
77.5°	89.5	91.4	93.4	116.7	149.8	182.8	229.5	270.4	297.6	305.4	313.2
80°	46.7	48.6	60.3	79.7	107.0	134.2	167.3	190.6	208.1	210.1	217.8
82.5°	29.2	31.1	42.8	56.4	75.9	99.2	122.5	142.0	155.6	157.6	159.5
85°	13.6	17.5	25.3	35.0	50.6	64.2	66.1	56.4	60.3	62.2	58.4
87.5°	3.9	5.8	7.8	5.8	7.8	7.8	9.7	11.7	11.7	11.7	13.6
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°	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2
2.5°	2223.2	2205.7	2137.6	2112.4	2046.2	2057.9	2022.9	2020.9	2013.2	2011.2	2009.3
5°	2277.7	2223.2	2141.5	2079.3	2042.3	2038.4	2013.2	2013.2	2020.9	2026.8	2013.2
7.5°	2367.2	2304.9	2166.8	2108.5	2075.4	2069.6	2052.1	2038.4	2056.0	2050.1	2034.6
10°	2470.3	2361.3	2215.5	2164.9	2110.4	2096.8	2096.8	2102.6	2073.5	2083.2	2067.6
12.5°	2585.0	2439.1	2277.7	2219.3	2155.2	2147.4	2143.5	2100.7	2116.3	2108.5	2069.6
15°	2730.9	2528.6	2357.4	2258.2	2203.8	2168.8	2118.2	2110.4	2100.7	2081.2	2063.7
17.5°	2888.4	2625.9	2394.4	2269.9	2188.2	2162.9	2124.0	2083.2	2054.0	2057.9	2044.3
20°	3022.7	2715.3	2408.0	2281.6	2176.5	2127.9	2067.6	2042.3	2011.2	2009.3	2007.3
22.5°	3182.2	2835.9	2427.5	2250.5	2141.5	2091.0	2050.1	2005.4	1984.0	1956.8	1970.4
25°	3372.8	2882.6	2431.4	2233.0	2116.3	2026.8	2005.4	1956.8	1949.0	1910.1	1917.9
27.5°	3510.9	2907.9	2400.2	2178.5	2057.9	1989.8	1950.9	1915.9	1902.3	1873.1	1865.3
30°	3695.7	2946.8	2334.1	2110.4	1999.5	1923.7	1900.3	1892.6	1853.7	1822.5	1818.7
32.5°	3905.7	2972.1	2291.3	2040.4	1939.2	1880.9	1892.6	1855.6	1807.0	1779.8	1772.0
35°	4073.0	2981.8	2184.3	1960.6	1898.4	1861.4	1847.8	1840.0	1770.0	1744.7	1725.3
37.5°	4327.8	2960.4	2094.9	1904.2	1853.7	1840.0	1828.4	1775.9	1696.1	1659.2	1631.9
40°	4625.4	2954.6	1980.1	1824.5	1810.9	1826.4	1791.4	1709.7	1598.9	1558.0	1538.6
42.5°	4911.3	2995.4	1908.1	1781.7	1764.2	1770.0	1721.4	1598.9	1544.4	1521.1	1489.9
45°	5389.8	3081.0	1789.5	1715.6	1707.8	1703.9	1645.5	1517.2	1486.0	1456.9	1451.0
47.5°	5821.6	3024.6	1713.6	1647.5	1655.3	1633.9	1509.4	1468.5	1433.5	1404.4	1394.6
50°	5846.9	2890.4	1606.6	1595.0	1596.9	1560.0	1441.3	1414.1	1369.3	1349.9	1336.3
52.5°	5714.7	2670.6	1507.4	1511.3	1517.2	1456.9	1357.7	1338.2	1301.3	1274.0	1266.2
55°	5343.1	2328.3	1410.2	1425.7	1441.3	1326.5	1295.4	1246.8	1217.6	1178.7	1180.7
57.5°	4707.1	1875.1	1274.0	1299.3	1332.4	1206.0	1182.6	1122.3	1079.5	1048.4	1044.5
60°	3154.9	1334.3	1069.8	1079.5	1153.4	1102.9	1100.9	1040.6	982.3	955.0	939.5
62.5°	1861.4	1019.2	923.9	914.2	912.2	941.4	990.0	968.7	892.8	840.3	855.8
65°	974.5	881.1	859.7	826.7	807.2	799.4	836.4	846.1	795.5	739.1	735.2
67.5°	818.9	818.9	801.4	789.7	762.5	729.4	706.1	674.9	667.2	651.6	632.2
70°	745.0	764.4	758.6	731.4	708.0	671.1	610.8	560.2	511.6	494.1	505.7
72.5°	649.7	669.1	669.1	655.5	624.4	568.0	509.6	451.3	410.4	379.3	375.4
75°	499.9	509.6	533.0	517.4	476.5	441.5	381.2	320.9	282.0	252.9	247.0
77.5°	319.0	334.6	334.6	332.6	303.4	270.4	231.5	188.7	159.5	138.1	132.3
80°	212.0	221.7	229.5	221.7	202.3	177.0	147.8	118.7	97.3	79.7	75.9
82.5°	155.6	167.3	173.1	165.3	145.9	126.4	105.0	83.6	62.2	48.6	44.7
85°	60.3	62.2	70.0	83.6	81.7	79.7	64.2	46.7	35.0	25.3	23.3
87.5°	15.6	13.6	15.6	15.6	13.6	11.7	11.7	11.7	11.7	5.8	7.8
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)