

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: P651924

Luminaire Tested: **GALN-SA5A-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13868.9 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

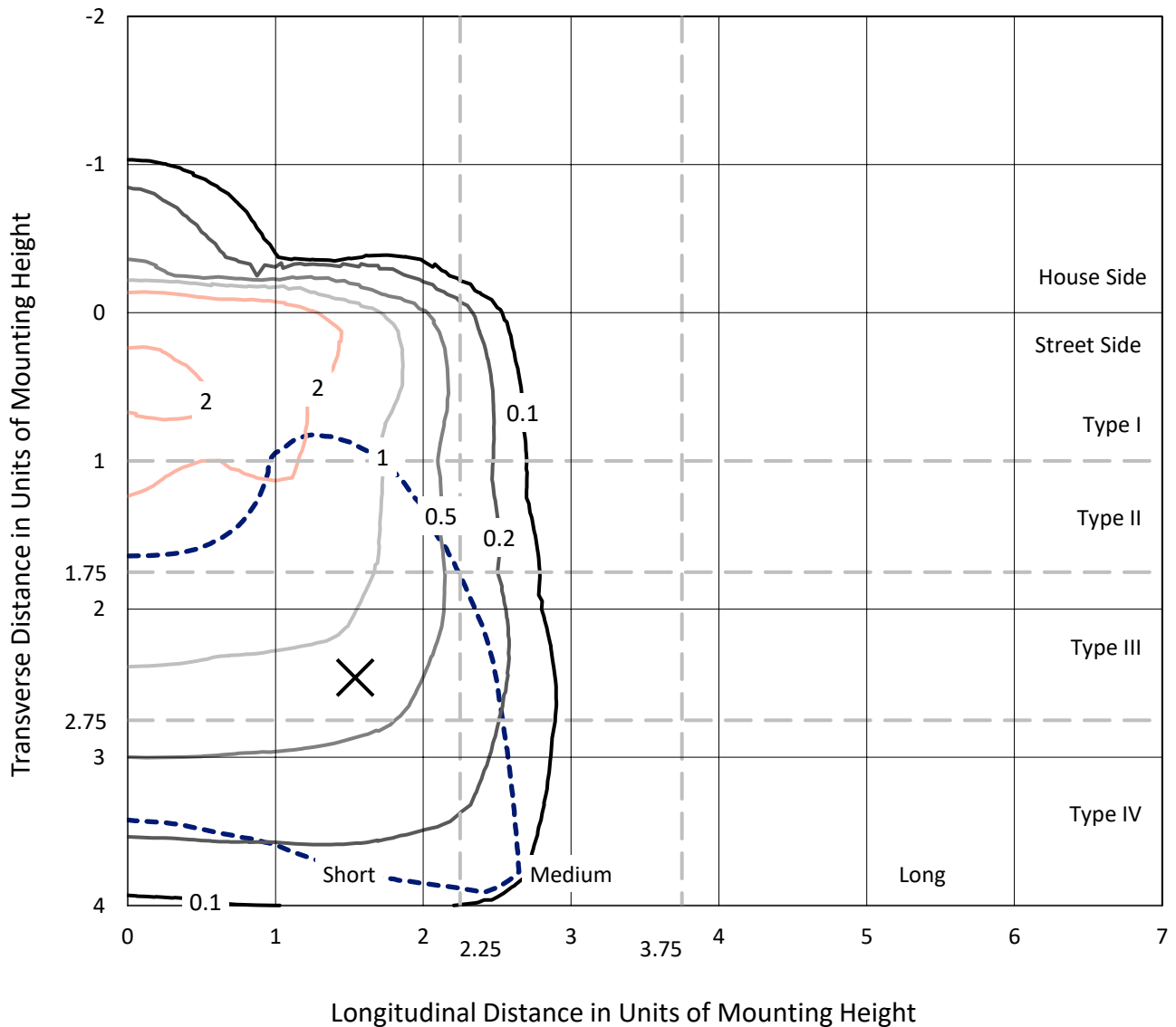
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

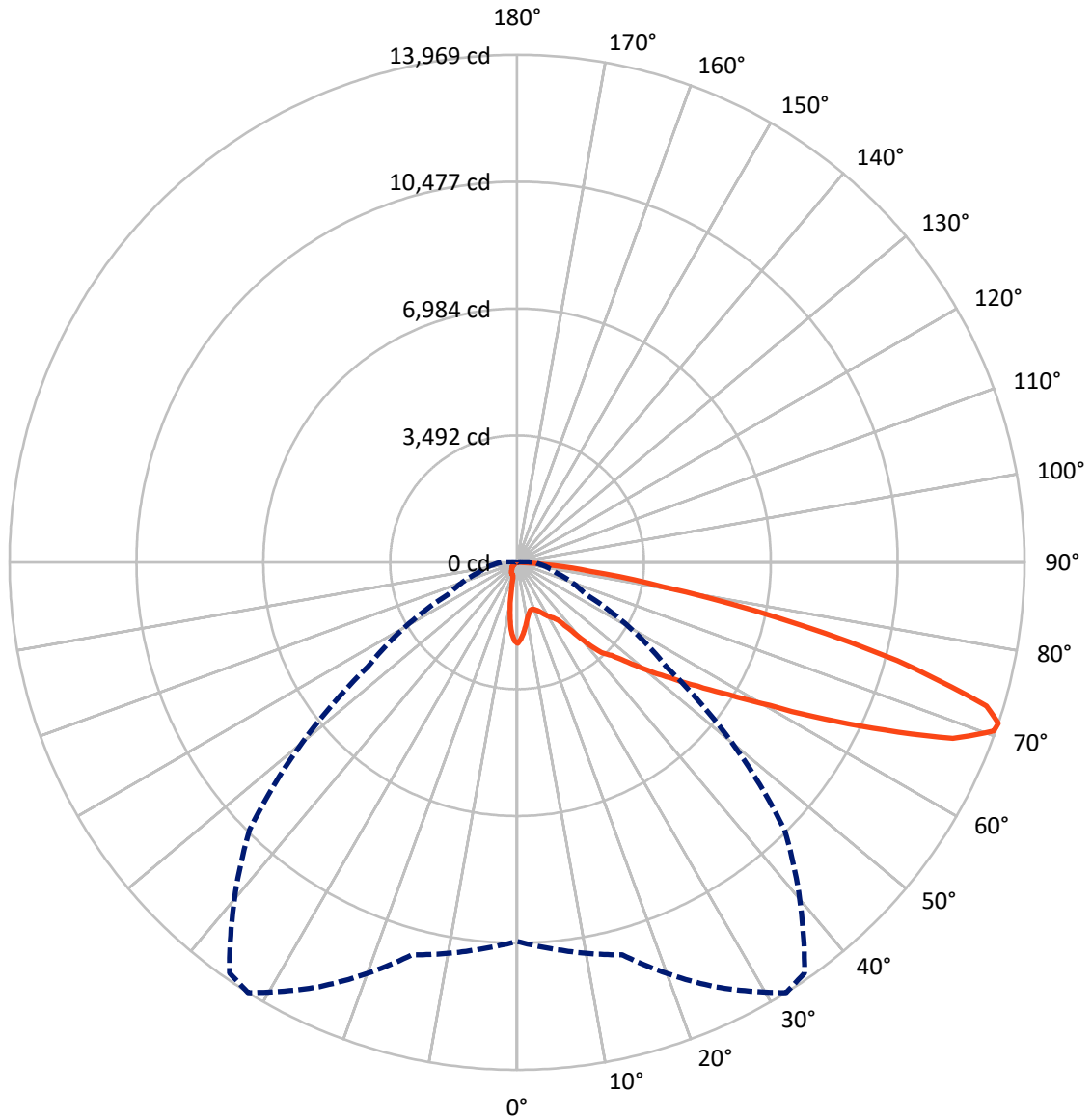
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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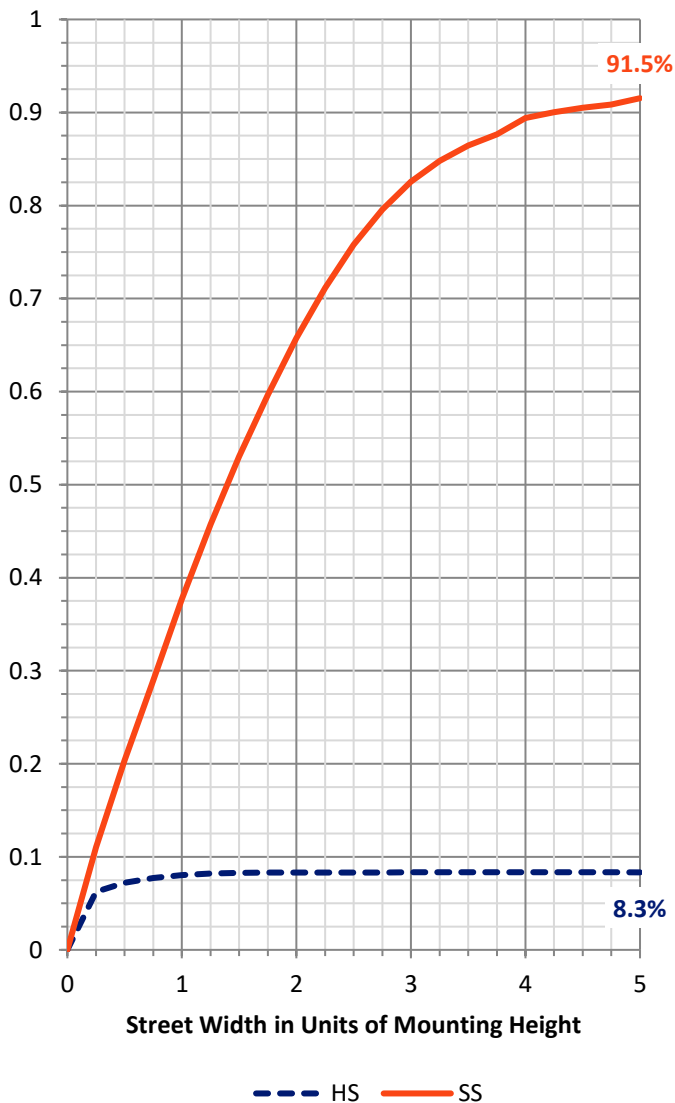
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1161.7	0.0	1161.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	12707.3	0.0	12707.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	13868.9	0.0	13868.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.4	1.3
10°-20°	393.6	2.8
20°-30°	612.3	4.4
30°-40°	1020.1	7.4
40°-50°	1897.6	13.7
50°-60°	3046.7	22.0
60°-70°	4097.9	29.5
70°-80°	2431.4	17.5
80°-90°	187.9	1.4
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°	13868.9	100.0
0°-180°	13868.9	100.0

Coefficient of Utilization



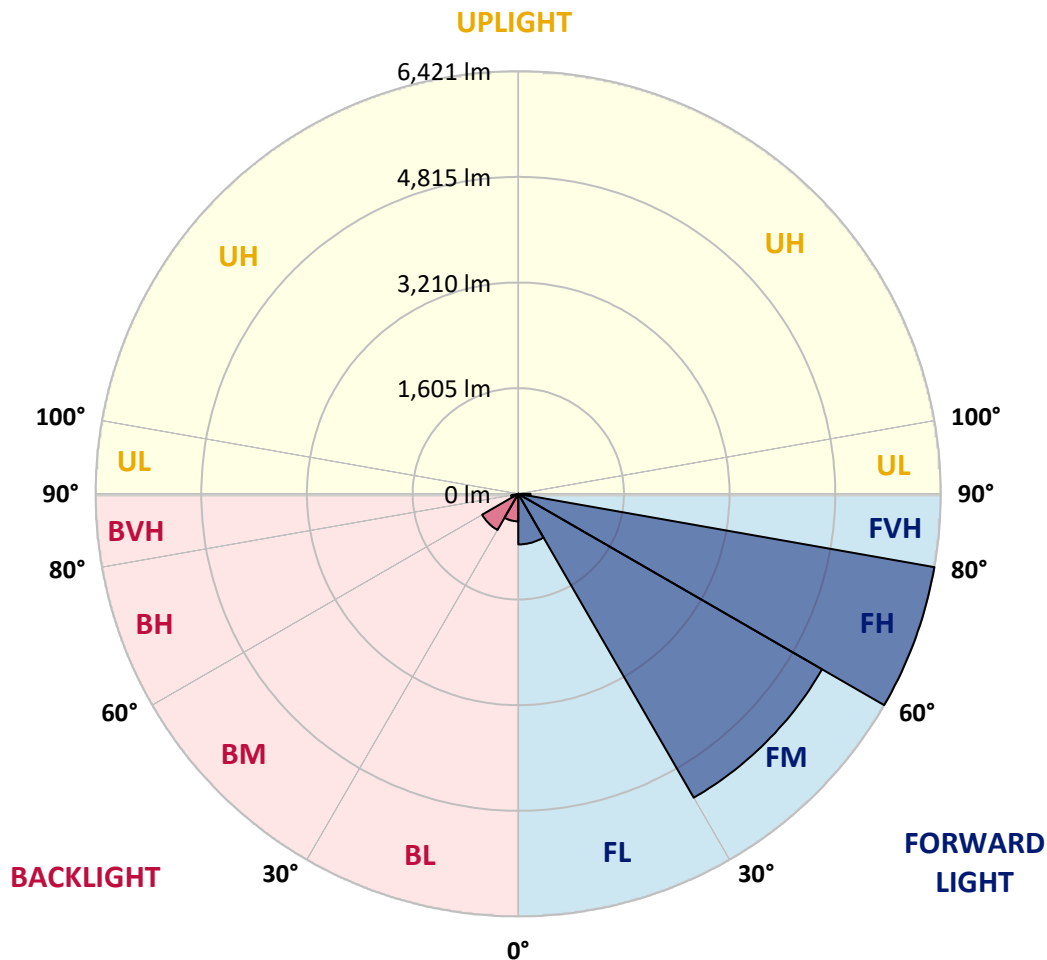
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	768.7	5.5			
FM (30°-60°)	5330.7	38.4			
FH (60°-80°)	6420.6	46.3			G3/7500
FVH (80°-90°)	187.2	1.3			G2/225
BL (0°-30°)	418.6	3.0	B1/500		
BM (30°-60°)	633.7	4.6	B1/1000		
BH (60°-80°)	108.7	0.8	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3
2.5°	2068.5	2089.8	2086.6	2094.1	2112.2	2119.7	2139.8	2162.2	2193.1	2214.4	2228.2
5°	1852.4	1868.4	1870.5	1907.7	1925.9	1946.1	2005.7	2070.6	2143.0	2200.6	2238.8
7.5°	1621.4	1629.9	1646.9	1695.9	1741.7	1761.9	1852.4	1965.2	2079.2	2186.7	2255.9
10°	1430.8	1440.4	1471.2	1523.5	1566.0	1592.7	1718.2	1859.9	2019.6	2179.2	2280.4
12.5°	1322.2	1327.5	1339.3	1386.1	1440.4	1469.1	1604.4	1766.2	1971.6	2182.4	2321.9
15°	1314.8	1312.6	1298.8	1318.0	1367.0	1396.7	1528.8	1702.3	1929.1	2193.1	2370.9
17.5°	1354.2	1348.9	1315.8	1315.8	1356.3	1380.8	1496.8	1668.2	1907.7	2217.5	2440.1
20°	1414.8	1406.3	1352.1	1347.8	1387.1	1412.7	1516.0	1670.4	1912.0	2263.4	2532.7
22.5°	1491.5	1481.9	1399.9	1402.1	1444.7	1470.2	1571.3	1708.7	1938.7	2319.7	2631.7
25°	1591.6	1580.9	1484.0	1479.8	1524.5	1546.9	1653.3	1776.8	1975.9	2390.0	2761.6
27.5°	1724.6	1702.3	1586.3	1579.9	1627.8	1656.5	1752.3	1868.4	2041.9	2486.9	2936.2
30°	1834.3	1809.8	1699.1	1682.1	1733.1	1755.5	1854.6	1991.9	2171.8	2656.2	3177.8
32.5°	1978.0	1941.9	1811.9	1767.3	1821.5	1850.3	2002.5	2221.8	2364.5	2835.0	3465.3
35°	2301.6	2279.3	2120.7	1964.2	1961.0	1997.2	2220.7	2453.9	2562.5	3114.0	3857.1
37.5°	2764.8	2748.8	2580.6	2370.9	2310.2	2293.2	2485.8	2709.4	2878.7	3497.2	4312.7
40°	3302.4	3265.1	3110.8	2933.0	2854.2	2804.1	2798.8	3089.5	3291.8	4017.8	4787.5
42.5°	3687.8	3619.7	3432.3	3419.5	3402.4	3350.3	3199.2	3645.2	3825.1	4577.8	5295.4
45°	4092.3	3989.0	3710.2	3662.2	3655.8	3652.6	3803.8	4303.1	4406.4	5184.6	5816.9
47.5°	4406.4	4324.4	4095.5	4074.2	4100.9	4173.2	4603.3	5001.5	4980.2	5725.4	6254.5
50°	4824.8	4763.0	4508.6	4549.1	4686.4	4804.5	5505.0	5762.7	5451.9	6151.2	6572.8
52.5°	5318.7	5204.9	4968.5	5078.1	5289.0	5485.9	6462.2	6429.1	5782.9	6471.7	6810.2
55°	5746.7	5665.8	5584.9	5698.8	6013.9	6259.9	7326.6	6928.4	6023.5	6729.3	6914.6
57.5°	6470.7	6451.5	6368.5	6484.5	6866.7	7122.2	8100.6	7315.9	6177.9	6863.5	6792.2
60°	7541.7	7510.8	7356.4	7504.4	8002.6	8403.9	8813.8	7664.0	6213.1	6811.3	6439.8
62.5°	8829.8	8724.4	8592.4	8810.7	9494.1	9670.8	9485.6	7870.6	6082.1	6396.1	5590.2
65°	10032.8	9924.2	9927.4	10387.4	11131.5	11251.7	10269.1	7839.7	5698.8	5356.0	4123.2
67.5°	10953.7	10935.6	11065.5	11962.9	12936.0	12852.9	10969.7	7377.7	4562.8	3471.6	2191.0
70°	11000.5	11035.7	11408.2	12923.2	13911.1	13779.1	10910.0	5996.9	2844.6	1596.9	863.4
71°	10434.2	10670.5	11185.8	12893.4	13968.7	13797.3	10407.5	5022.8	2086.6	1113.6	622.8
72.5°	8891.6	9016.1	10129.7	12134.4	13514.0	13147.9	9133.3	3520.7	1336.1	681.4	357.7
75°	4897.1	5203.8	6783.7	9519.7	10808.9	10487.4	5952.2	1672.5	666.4	372.6	148.0
77.5°	2331.5	2271.9	3309.8	5661.5	7328.7	7311.7	2999.0	743.1	388.5	252.3	74.5
80°	666.4	749.5	1266.9	2691.3	4068.9	4113.6	1151.9	358.8	269.4	197.0	38.3
82.5°	201.3	205.5	465.2	1190.2	2023.8	1907.7	432.2	183.1	193.8	156.5	22.4
85°	35.2	43.6	137.3	419.5	771.9	585.5	108.6	87.3	127.7	103.3	12.8
87.5°	2.1	3.2	45.8	47.9	68.1	39.4	19.2	12.8	27.7	27.7	7.5
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°	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3
2.5°	2237.8	2244.2	2239.9	2230.3	2214.4	2195.2	2169.7	2148.3	2130.3	2120.7	2132.4
5°	2251.6	2260.2	2238.8	2191.0	2118.6	2039.8	1950.4	1881.1	1826.8	1809.8	1803.4
7.5°	2272.9	2278.3	2220.7	2114.3	1961.0	1774.7	1611.8	1474.4	1368.1	1336.1	1289.3
10°	2300.6	2297.4	2188.8	1990.8	1721.4	1441.5	1189.2	1001.8	860.2	809.1	804.8
12.5°	2343.2	2326.1	2148.3	1822.6	1436.2	1069.9	758.0	593.0	503.6	473.7	467.3
15°	2396.4	2356.0	2084.5	1625.7	1099.7	691.0	467.3	417.3	405.6	403.5	401.3
17.5°	2459.3	2395.3	2000.4	1383.9	772.9	448.2	390.7	389.6	390.7	388.5	387.5
20°	2544.4	2436.9	1900.3	1097.6	511.0	377.9	372.6	372.6	373.7	372.6	372.6
22.5°	2634.9	2485.8	1776.8	837.8	385.3	358.8	357.7	359.9	362.0	360.9	360.9
25°	2746.7	2549.7	1614.0	573.8	344.9	342.8	343.9	348.1	352.4	353.5	352.4
27.5°	2908.5	2628.5	1439.4	394.9	316.2	318.3	329.0	339.6	346.0	347.1	347.1
30°	3090.5	2715.8	1211.5	320.4	292.8	292.8	305.5	325.8	339.6	341.7	342.8
32.5°	3324.7	2816.9	959.2	288.5	270.4	268.3	280.0	304.4	330.0	337.5	337.5
35°	3614.3	2936.2	713.3	268.3	254.4	249.1	255.5	275.8	308.7	330.0	332.2
37.5°	3954.0	3049.0	521.7	250.2	239.5	232.1	236.3	252.3	279.0	310.8	319.4
40°	4268.0	3149.1	389.6	235.3	224.6	219.3	222.5	229.9	252.3	282.2	287.5
42.5°	4610.8	3226.8	309.8	219.3	209.7	207.6	207.6	210.8	225.7	242.7	243.8
45°	4952.6	3254.5	259.8	200.2	193.8	195.9	194.9	192.7	199.1	197.0	197.0
47.5°	5196.3	3221.5	215.0	182.1	182.1	185.3	179.9	172.5	169.3	156.5	157.5
50°	5363.5	3101.2	176.7	160.7	169.3	173.5	162.9	151.2	139.4	125.6	122.4
52.5°	5432.7	2887.2	144.8	133.0	150.1	155.4	142.6	128.8	110.8	99.0	95.8
55°	5388.0	2623.2	120.3	108.6	126.7	133.0	120.3	104.4	84.1	71.3	69.2
57.5°	5191.0	2308.0	102.2	86.2	101.2	105.4	96.9	79.8	59.6	46.8	46.8
60°	4850.3	1982.3	83.0	68.1	75.6	82.0	73.4	57.5	40.5	28.8	26.6
62.5°	4159.4	1609.7	67.1	53.2	53.2	58.5	51.1	41.5	25.6	14.9	13.9
65°	3003.2	1104.0	53.2	39.4	38.3	38.3	32.0	27.7	14.9	6.4	4.3
67.5°	1632.0	622.8	42.6	29.8	26.6	25.6	20.3	16.0	6.4	1.1	0.0
70°	641.9	239.5	33.0	20.3	17.1	16.0	10.7	7.5	4.3	0.0	0.0
71°	435.4	165.0	28.8	17.1	13.9	11.7	8.5	6.4	3.2	0.0	0.0
72.5°	249.1	102.2	22.4	12.8	10.7	8.5	6.4	4.3	3.2	0.0	0.0
75°	108.6	52.1	13.9	9.6	7.5	5.3	4.3	3.2	1.1	0.0	0.0
77.5°	55.3	28.8	9.6	7.5	4.3	3.2	2.1	1.1	0.0	0.0	0.0
80°	30.9	14.9	6.4	4.3	3.2	2.1	1.1	1.1	0.0	0.0	0.0
82.5°	17.1	8.5	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.7	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	2.1	0.0	0.0	0.0	0.0	1.1	1.1	0.0	0.0	0.0
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)