

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: P452130

Luminaire Tested: **GALN-SA3A-740-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13622 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

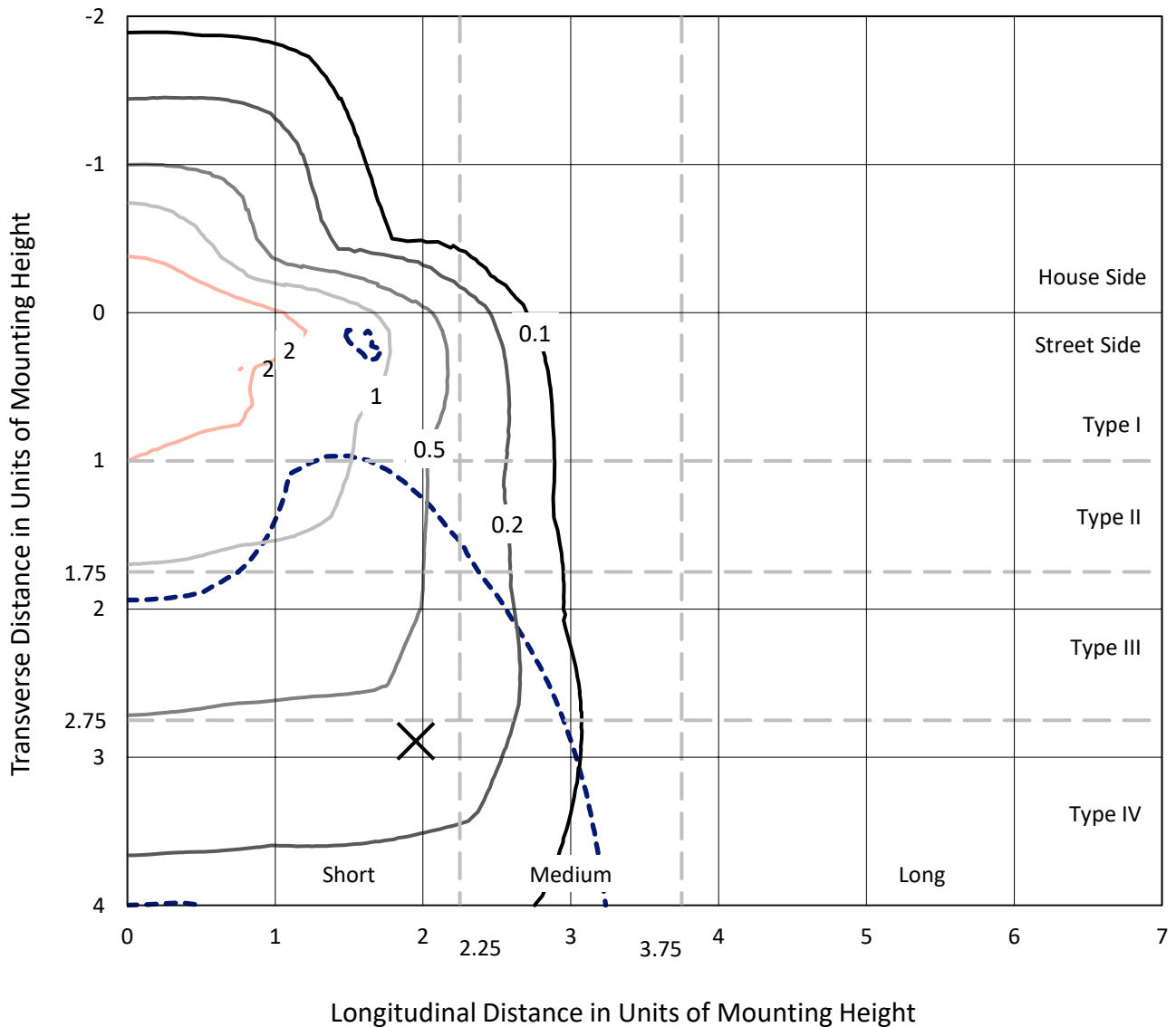
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

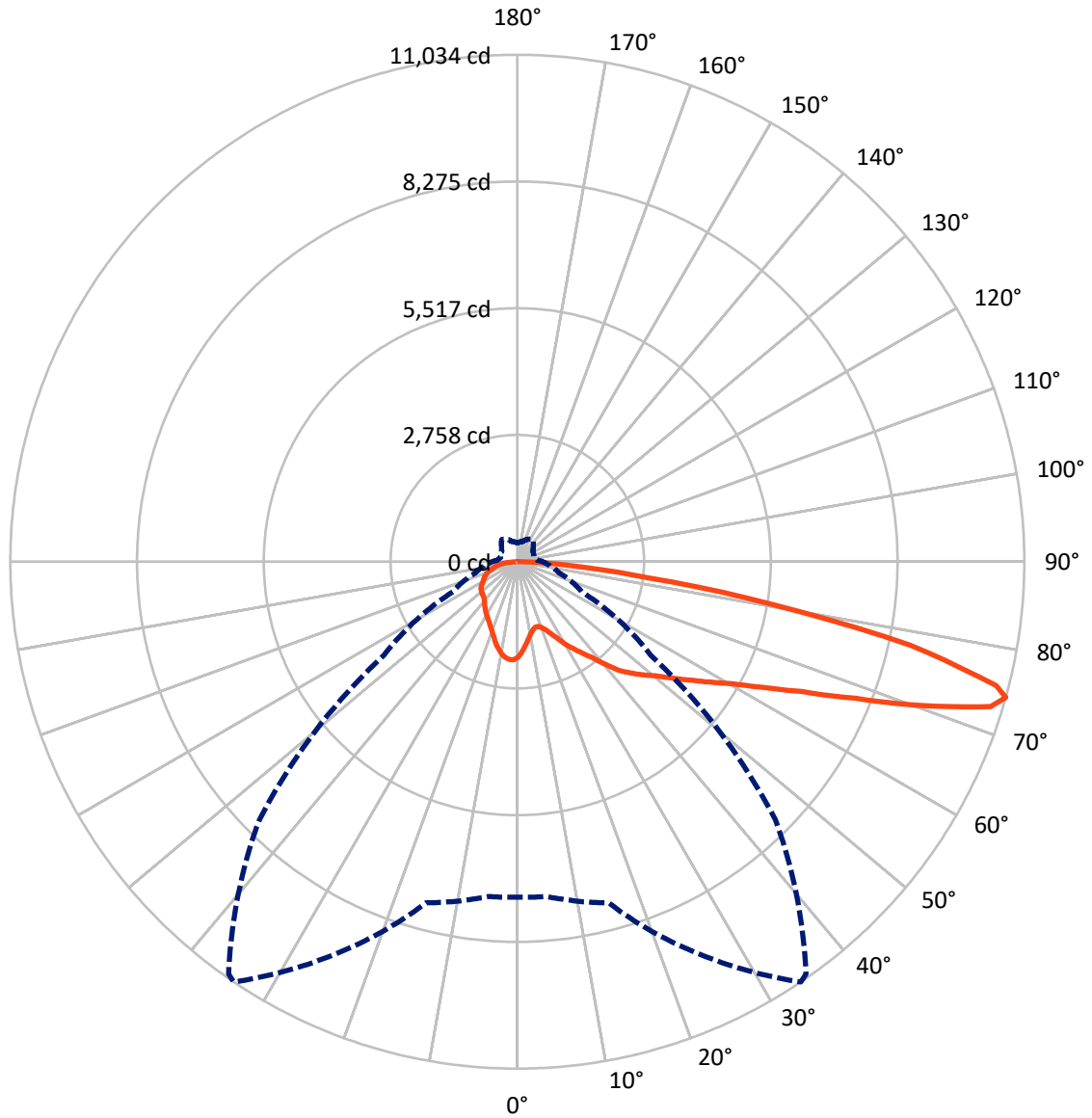
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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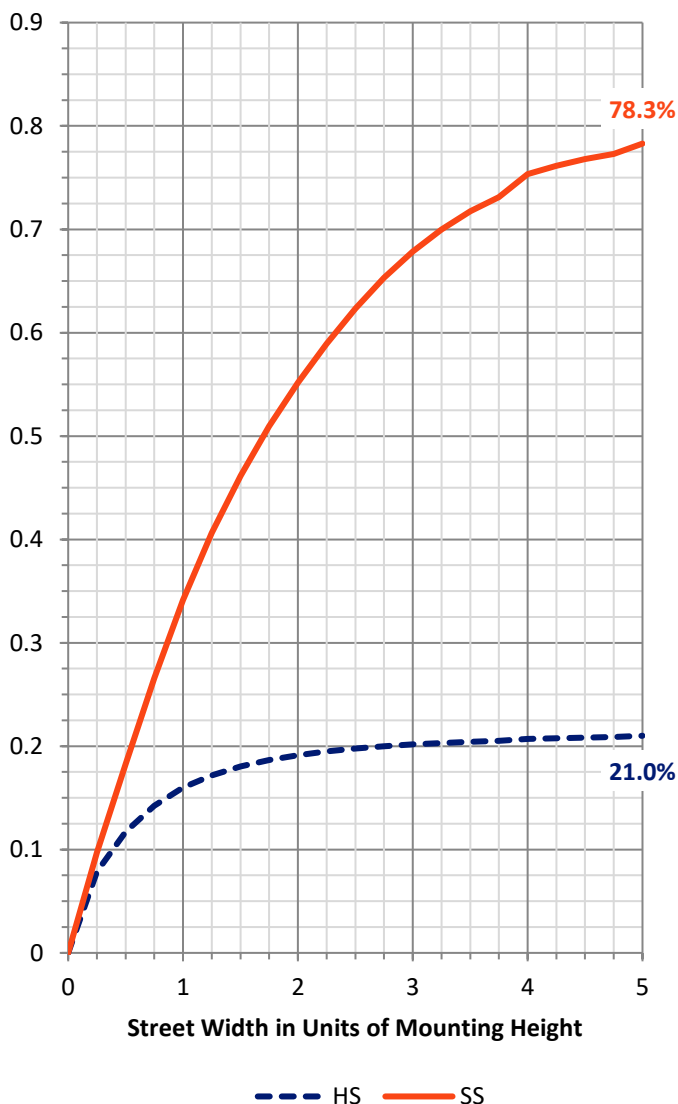
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2898.9	0.0	2898.9
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	10723.1	0.0	10723.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	13622.0	0.0	13622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	1.4
10°-20°	517.8	3.8
20°-30°	853.7	6.3
30°-40°	1278.7	9.4
40°-50°	1858.9	13.6
50°-60°	2596.5	19.1
60°-70°	3250.7	23.9
70°-80°	2688.1	19.7
80°-90°	388.4	2.9
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°	13622.0	100.0
0°-180°	13622.0	100.0

Coefficient of Utilization



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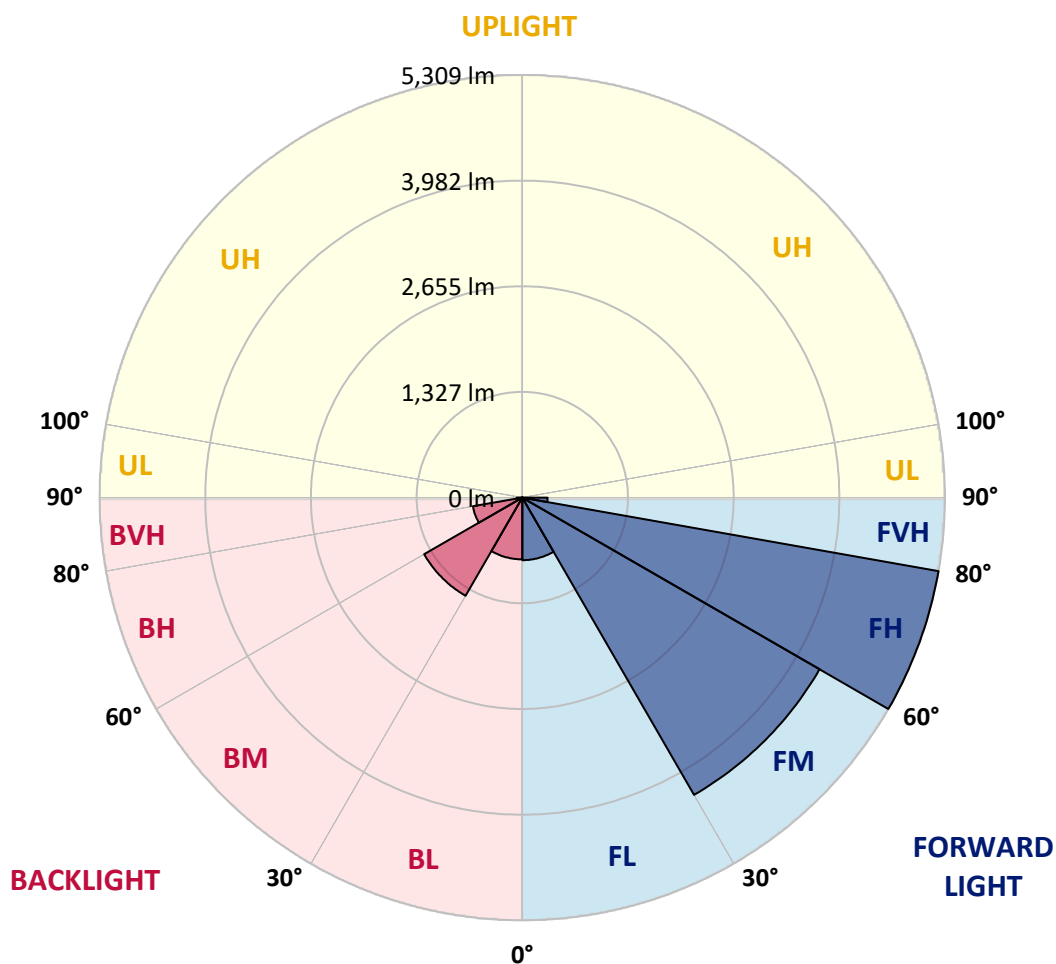
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	785.2	5.8			
FM	(30°-60°)	4310.6	31.6			
FH	(60°-80°)	5309.1	39.0			G3/7500
FVH	(80°-90°)	318.2	2.3			G3/500
BL	(0°-30°)	775.4	5.7	B2/1000		
BM	(30°-60°)	1423.6	10.5	B2/2500		
BH	(60°-80°)	629.6	4.6	B2/1000		G2/1000
BVH	(80°-90°)	70.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8
2.5°	1922.1	1931.9	1937.2	1956.0	1960.6	1966.6	1982.5	2003.6	2030.8	2054.9	2076.0
5°	1762.1	1777.2	1786.3	1802.9	1835.3	1838.3	1880.6	1928.9	1984.0	2035.3	2077.5
7.5°	1610.4	1627.0	1634.6	1664.8	1707.8	1714.6	1776.4	1852.7	1944.7	2022.5	2087.4
10°	1496.5	1504.8	1521.4	1544.0	1595.3	1599.9	1680.6	1782.5	1901.7	2016.4	2104.0
12.5°	1434.6	1439.1	1442.9	1467.0	1517.6	1524.4	1608.9	1724.4	1867.8	2020.9	2131.1
15°	1443.6	1445.2	1428.5	1433.1	1473.8	1483.6	1567.4	1685.9	1846.6	2032.3	2171.9
17.5°	1519.9	1514.6	1473.8	1452.7	1481.4	1485.9	1559.1	1670.8	1836.8	2053.4	2214.1
20°	1639.9	1632.3	1562.1	1515.3	1531.9	1535.7	1586.3	1682.1	1846.6	2088.1	2279.8
22.5°	1789.3	1786.3	1679.8	1623.2	1622.5	1622.5	1648.9	1722.9	1876.1	2135.7	2348.5
25°	1998.3	1982.5	1843.6	1770.4	1750.0	1748.5	1745.5	1790.0	1913.8	2186.2	2430.0
27.5°	2212.6	2185.5	2061.7	1949.3	1905.5	1900.2	1880.6	1885.1	1962.1	2243.6	2522.8
30°	2405.1	2387.7	2271.5	2147.0	2094.9	2082.8	2028.5	2003.6	2042.8	2347.0	2670.7
32.5°	2552.2	2541.7	2451.1	2337.9	2260.9	2258.7	2179.4	2159.0	2168.9	2472.2	2839.7
35°	2671.5	2675.2	2629.2	2531.1	2442.8	2430.0	2377.1	2351.5	2322.8	2653.3	3052.6
37.5°	2834.5	2842.8	2839.7	2755.2	2647.3	2650.3	2638.2	2596.0	2519.8	2855.6	3288.8
40°	3014.1	3020.1	3019.3	2986.9	2930.3	2933.3	2928.8	2880.5	2766.5	3112.9	3551.4
42.5°	3262.3	3233.7	3159.0	3191.4	3224.6	3238.9	3269.9	3223.9	3067.6	3387.6	3798.1
45°	3540.1	3485.7	3316.7	3331.8	3454.8	3481.9	3652.5	3589.1	3394.4	3703.1	4088.7
47.5°	3715.1	3661.6	3518.9	3515.9	3678.9	3705.3	4007.2	3983.8	3691.7	4043.4	4443.4
50°	3871.3	3863.8	3703.1	3741.5	3900.8	3940.0	4393.6	4371.7	3988.3	4444.9	4829.7
52.5°	4103.0	4041.9	3913.6	3992.8	4203.4	4254.7	4776.9	4712.8	4260.7	4799.6	5204.8
55°	4207.2	4192.8	4185.3	4254.0	4543.0	4580.0	5149.7	5002.6	4493.2	5099.9	5490.1
57.5°	4485.6	4459.2	4533.9	4580.7	4942.9	4999.5	5539.1	5305.2	4696.9	5338.4	5628.9
60°	4846.3	4832.0	4900.7	4985.2	5389.7	5475.7	5982.8	5563.3	4860.7	5458.4	5552.7
62.5°	5385.2	5383.7	5370.8	5551.9	6022.8	6102.1	6492.2	5814.6	4886.3	5368.6	5158.8
65°	6157.9	6130.8	6019.1	6216.8	6810.7	6903.5	7022.8	5954.9	4731.6	4907.5	4343.8
67.5°	6966.2	6964.6	6874.1	7130.7	7941.9	8037.8	7686.1	5924.0	4302.2	3975.5	3085.0
70°	7636.3	7603.8	7719.3	8403.0	9387.1	9498.0	8266.4	5559.5	3426.9	2625.4	1833.0
72.5°	7797.0	7798.5	8038.5	9384.0	10774.9	10792.2	8475.5	4506.0	2293.4	1448.2	916.9
74°	7302.0	7314.8	7686.8	9433.1	11033.7	10955.2	7941.2	3541.6	1550.8	945.6	661.1
75°	6665.1	6584.3	7122.4	9106.3	10765.1	10680.5	7315.6	2842.0	1183.3	755.4	578.8
77.5°	3563.4	3645.7	4475.8	6795.6	8745.6	8648.3	4960.3	1362.9	639.2	526.0	416.6
80°	1268.6	1399.1	1966.6	3555.9	5607.0	5637.2	2367.3	624.8	449.8	387.9	294.3
82.5°	517.7	532.0	844.5	1578.0	2847.3	2874.5	966.7	371.3	321.5	267.1	175.8
85°	202.2	208.3	373.6	709.4	1215.0	1294.2	334.3	196.2	197.7	153.2	89.8
87.5°	67.9	77.0	153.2	236.2	412.8	404.5	97.3	58.1	70.9	66.4	27.9
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°	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8
2.5°	2086.6	2100.9	2110.8	2121.3	2131.1	2134.1	2131.9	2138.7	2139.4	2140.2	2140.9
5°	2098.7	2118.3	2137.2	2147.7	2152.3	2148.5	2135.7	2128.9	2122.8	2118.3	2119.8
7.5°	2115.3	2143.2	2160.6	2165.1	2153.0	2135.7	2104.0	2079.1	2063.2	2052.6	2051.9
10°	2140.9	2168.1	2182.4	2169.6	2136.4	2094.1	2044.3	1997.6	1962.1	1951.5	1950.8
12.5°	2173.4	2204.3	2203.6	2165.8	2107.7	2032.3	1951.5	1897.2	1848.9	1824.7	1834.5
15°	2215.6	2239.0	2217.2	2149.2	2057.2	1953.8	1854.2	1780.2	1725.9	1700.2	1701.7
17.5°	2264.7	2285.1	2227.0	2119.8	1986.2	1853.4	1738.0	1667.8	1624.8	1605.9	1604.4
20°	2325.8	2331.9	2227.0	2068.5	1894.9	1736.4	1626.3	1577.2	1553.1	1543.3	1546.3
22.5°	2391.5	2379.4	2214.9	1996.0	1774.9	1614.2	1540.2	1518.4	1506.3	1504.8	1506.3
25°	2465.4	2431.5	2190.0	1897.9	1649.7	1508.5	1465.5	1469.3	1471.6	1471.6	1476.8
27.5°	2556.0	2488.1	2148.5	1774.2	1503.3	1410.4	1398.4	1424.8	1436.8	1439.1	1442.9
30°	2675.2	2550.0	2079.8	1619.5	1378.7	1322.1	1343.3	1378.7	1392.3	1400.6	1399.1
32.5°	2817.1	2617.9	1987.0	1464.8	1278.4	1260.3	1285.9	1322.1	1337.2	1341.8	1335.7
35°	2983.9	2694.8	1864.7	1319.9	1190.8	1201.4	1231.6	1242.9	1256.5	1256.5	1259.5
37.5°	3163.5	2756.7	1715.3	1187.1	1122.9	1161.4	1183.3	1172.7	1166.7	1159.1	1162.9
40°	3346.1	2802.8	1521.4	1055.8	1055.0	1119.9	1125.9	1095.7	1071.6	1064.1	1060.3
42.5°	3505.3	2831.4	1346.3	953.9	990.9	1079.1	1083.7	1035.4	996.9	974.3	966.7
45°	3693.2	2864.6	1175.0	869.4	931.2	1046.7	1058.0	993.1	936.5	889.0	876.9
47.5°	3950.6	2940.1	1039.9	803.7	888.2	1026.3	1042.2	958.4	883.7	821.8	812.0
50°	4241.1	3043.5	935.0	759.2	855.0	1008.2	1027.8	922.9	834.6	766.0	758.4
52.5°	4507.5	3099.3	844.5	719.2	822.6	975.0	1009.0	897.3	786.3	710.1	703.3
55°	4653.2	3008.8	755.4	679.9	778.0	932.0	982.6	861.8	739.6	680.7	670.9
57.5°	4672.8	2821.6	674.7	637.7	731.3	879.2	933.5	818.8	709.4	660.3	652.0
60°	4521.1	2542.4	612.0	603.0	683.7	819.5	878.4	781.1	678.4	637.7	629.4
62.5°	4143.8	2239.0	568.2	571.3	635.4	756.9	837.7	744.8	649.0	612.8	605.2
65°	3494.8	1848.1	526.0	538.8	592.4	707.9	800.7	714.7	619.6	593.9	587.1
67.5°	2427.7	1334.2	491.3	504.9	551.6	658.1	757.7	682.2	586.4	572.8	562.2
70°	1344.0	821.1	450.5	466.4	509.4	602.2	709.4	633.1	538.1	532.0	516.9
72.5°	706.4	523.0	404.5	421.8	452.0	530.5	635.4	579.6	490.5	464.9	445.2
74°	551.6	428.6	373.6	391.7	412.0	488.3	591.6	541.1	456.6	426.4	411.3
75°	480.7	381.9	347.1	370.5	388.6	459.6	557.7	513.9	437.7	409.0	395.4
77.5°	339.6	286.0	283.7	311.7	321.5	403.0	502.6	467.9	390.2	360.0	347.1
80°	238.5	214.3	224.9	242.2	255.8	356.2	466.4	404.5	320.0	284.5	280.0
82.5°	155.5	140.4	160.7	176.6	181.1	262.6	376.6	307.1	233.2	189.4	175.8
85°	71.7	70.2	92.1	89.8	89.0	128.3	223.4	179.6	134.3	100.4	94.3
87.5°	18.1	17.4	22.6	18.9	22.6	19.6	20.4	5.3	0.8	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)