

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: P451401

Luminaire Tested: **GALN-SA2B-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10334 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

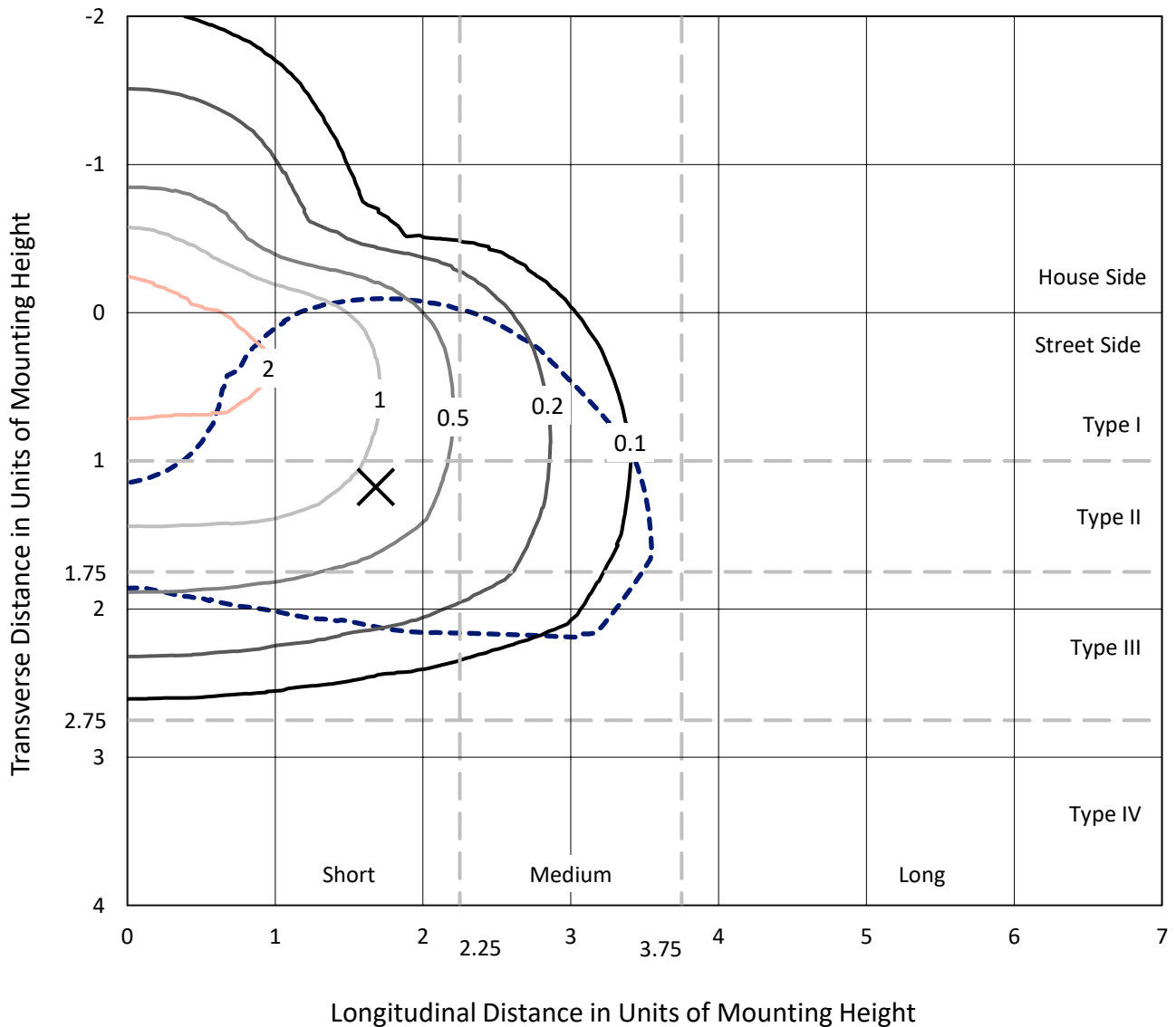
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

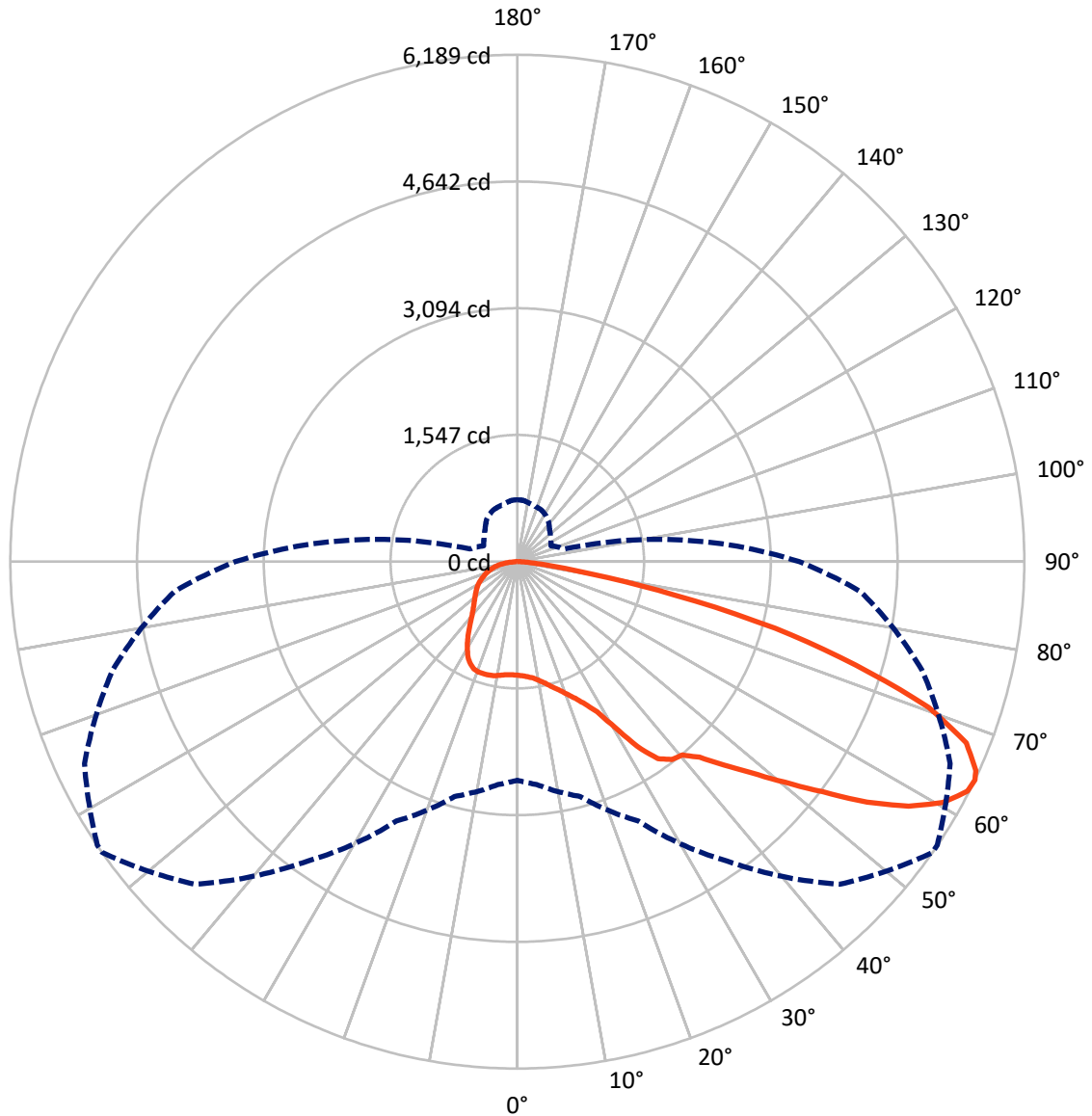
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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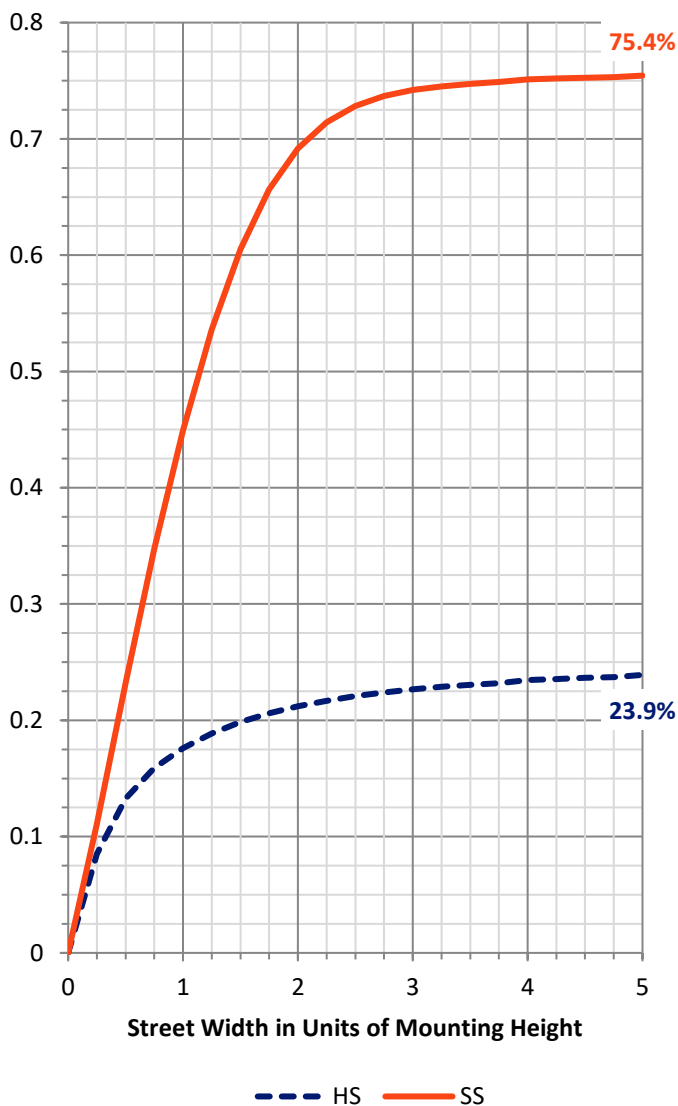
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2510.3	0.0	2510.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	7823.7	0.0	7823.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	10334.0	0.0	10334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	1.3
10°-20°	425.6	4.1
20°-30°	757.6	7.3
30°-40°	1165.7	11.3
40°-50°	1652.4	16.0
50°-60°	2391.8	23.1
60°-70°	2475.3	24.0
70°-80°	1159.2	11.2
80°-90°	171.6	1.7
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°	10334.0	100.0
0°-180°	10334.0	100.0

Coefficient of Utilization



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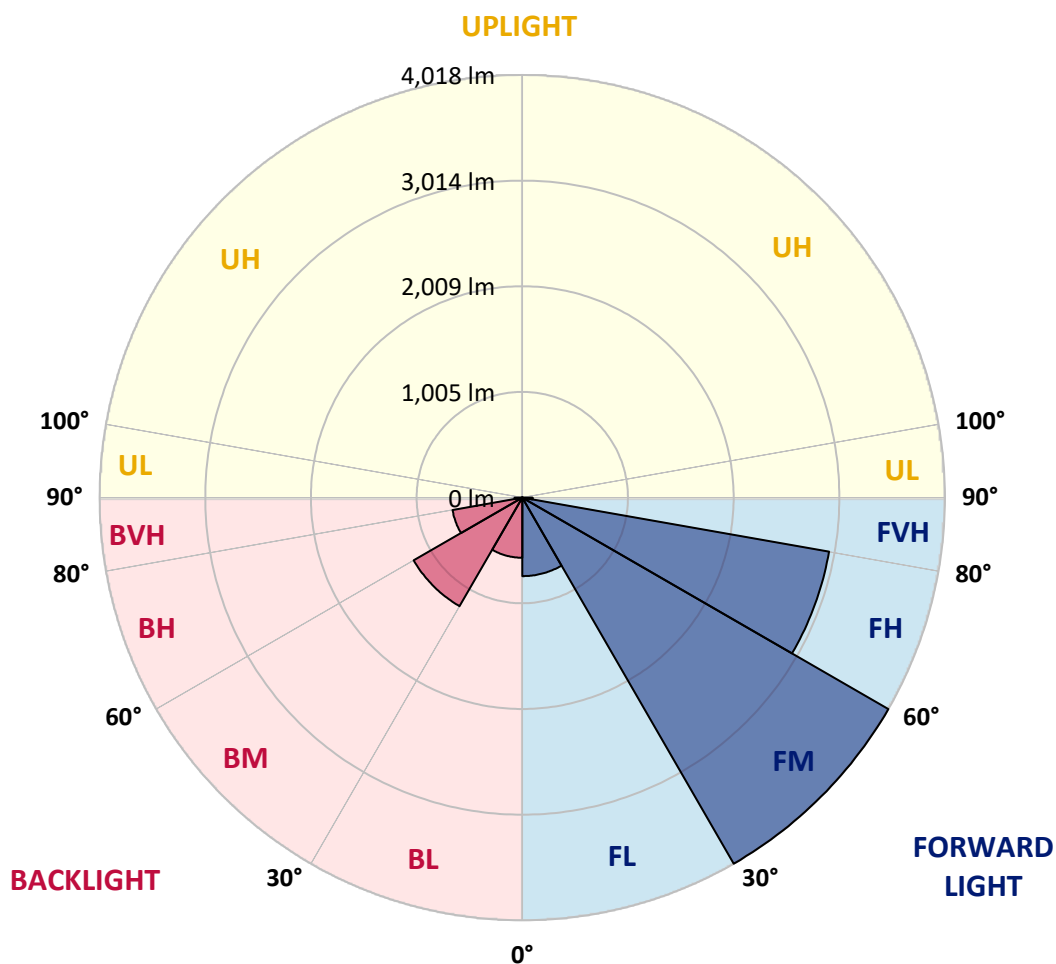
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	746.3	7.2			
FM	(30°-60°)	4018.1	38.9			
FH	(60°-80°)	2961.0	28.7			G2/5000
FVH	(80°-90°)	98.3	1.0			G1/100
BL	(0°-30°)	571.8	5.5	B2/1000		
BM	(30°-60°)	1191.8	11.5	B2/2500		
BH	(60°-80°)	673.5	6.5	B2/1000		G2/1000
BVH	(80°-90°)	73.3	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5
2.5°	1402.1	1401.5	1403.2	1401.5	1402.6	1398.6	1396.9	1398.0	1396.3	1393.4	1388.2
5°	1419.3	1418.8	1419.3	1417.0	1418.2	1415.9	1411.9	1413.0	1410.1	1403.8	1396.3
7.5°	1448.7	1446.4	1446.4	1445.8	1443.5	1440.1	1437.2	1436.0	1433.2	1425.1	1413.6
10°	1486.7	1486.7	1487.3	1482.7	1485.6	1479.3	1476.4	1475.8	1466.0	1455.6	1439.5
12.5°	1536.9	1539.7	1538.0	1535.7	1534.6	1532.2	1522.5	1524.8	1513.8	1496.0	1476.4
15°	1599.1	1603.7	1600.8	1599.6	1596.8	1588.1	1584.1	1582.4	1568.0	1542.0	1516.1
17.5°	1681.4	1675.7	1673.4	1670.5	1658.4	1652.1	1645.1	1644.0	1631.3	1600.8	1560.5
20°	1753.4	1761.5	1756.9	1754.0	1741.9	1729.8	1724.6	1722.9	1712.0	1678.6	1614.0
22.5°	1839.3	1841.0	1842.7	1835.8	1830.1	1820.8	1811.6	1808.7	1804.7	1770.1	1691.2
25°	1930.9	1937.8	1932.0	1925.1	1918.2	1917.6	1926.3	1925.1	1923.4	1890.0	1793.8
27.5°	2080.1	2086.4	2088.1	2080.6	2054.1	2056.4	2076.0	2082.4	2108.9	2053.6	1925.7
30°	2164.2	2170.5	2184.9	2213.1	2255.2	2292.0	2339.3	2353.7	2379.0	2274.8	2082.4
32.5°	2216.0	2218.3	2244.2	2296.6	2422.8	2560.5	2688.9	2694.1	2710.2	2563.9	2225.8
35°	2297.8	2299.5	2320.3	2377.9	2525.9	2755.2	2953.9	2960.2	2947.0	2653.8	2292.6
37.5°	2398.6	2403.2	2416.5	2464.3	2641.1	2918.2	3063.9	3059.3	2941.8	2725.2	2410.7
40°	2545.5	2545.5	2529.9	2594.5	2762.7	3011.5	3102.5	3094.4	3063.3	2932.0	2590.4
42.5°	2675.1	2672.8	2709.7	2753.4	2914.7	3155.5	3264.4	3277.6	3328.9	3191.8	2794.9
45°	2843.9	2854.2	2875.0	2954.5	3173.4	3401.5	3542.0	3554.7	3627.3	3497.7	3034.0
47.5°	3014.4	3017.8	3082.9	3188.9	3493.6	3735.0	3850.2	3870.9	3937.2	3855.4	3291.5
50°	3135.3	3168.2	3272.4	3439.5	3823.7	4141.7	4231.5	4256.3	4373.2	4244.8	3591.6
52.5°	3263.2	3295.5	3422.8	3677.4	4202.7	4557.6	4668.2	4684.9	4806.4	4638.8	3898.6
55°	3372.7	3402.6	3547.2	3888.2	4504.6	4982.1	5182.6	5163.0	5221.2	4942.4	4135.3
57.5°	3390.5	3414.7	3596.7	4023.0	4731.5	5346.2	5633.6	5645.1	5577.7	5169.3	4330.6
60°	3252.3	3301.8	3510.9	4008.6	4833.5	5599.6	5970.0	5978.1	5786.8	5285.7	4408.4
62.5°	3007.5	3002.3	3255.2	3777.0	4690.6	5657.2	6168.2	6159.5	5868.6	5229.8	4332.9
64°	2669.3	2731.5	2967.7	3492.5	4460.2	5568.5	6188.9	6184.3	5829.5	5113.4	4204.5
65°	2463.1	2459.7	2693.0	3259.8	4231.0	5434.9	6152.0	6145.7	5747.7	5009.2	4104.8
67.5°	1778.2	1786.3	2016.7	2515.5	3439.5	4912.4	5911.8	5888.2	5425.1	4663.6	3725.8
70°	1077.2	1081.8	1262.7	1668.8	2468.9	3971.2	5328.9	5330.0	4931.4	4147.4	3171.1
72.5°	567.4	579.5	652.1	947.6	1499.4	2786.3	4323.1	4425.7	4233.8	3539.7	2505.2
75°	315.7	317.4	368.7	467.2	765.0	1559.3	3249.4	3278.8	3351.9	2849.1	1852.5
77.5°	240.8	244.2	260.4	301.8	416.5	722.9	1966.6	2114.0	2362.3	2008.6	1057.0
80°	195.3	198.7	212.6	237.3	277.1	342.7	913.6	993.1	1264.4	891.7	412.4
82.5°	152.1	149.8	167.6	183.8	201.6	202.8	375.0	414.7	515.0	383.6	178.6
85°	112.9	112.9	127.3	123.8	130.2	118.7	165.3	182.6	206.2	163.0	82.9
87.5°	44.9	49.5	83.5	74.9	58.2	46.7	61.1	64.5	71.4	63.9	34.6
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°	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5
2.5°	1388.8	1390.5	1386.5	1383.6	1382.5	1380.8	1379.0	1379.6	1381.9	1384.2	1383.6
5°	1395.7	1396.3	1389.4	1385.9	1383.6	1381.3	1381.3	1383.1	1387.7	1391.1	1391.1
7.5°	1413.0	1413.0	1403.2	1396.9	1393.4	1389.4	1388.2	1388.8	1392.3	1396.9	1397.5
10°	1440.1	1437.8	1425.1	1415.3	1409.0	1399.2	1390.5	1385.9	1387.7	1390.5	1390.5
12.5°	1472.9	1466.6	1450.5	1437.2	1421.6	1403.2	1385.4	1376.1	1375.6	1378.4	1377.3
15°	1508.1	1501.1	1478.7	1454.5	1427.4	1400.3	1379.0	1365.8	1355.4	1352.5	1358.9
17.5°	1549.0	1534.6	1503.4	1470.0	1429.7	1394.6	1361.2	1334.1	1315.7	1310.5	1312.2
20°	1598.5	1579.5	1537.4	1485.0	1428.0	1373.8	1322.0	1285.7	1255.8	1246.5	1247.7
22.5°	1667.0	1634.2	1572.6	1492.5	1413.6	1334.7	1262.7	1215.4	1179.1	1164.7	1173.4
25°	1744.8	1709.1	1606.0	1490.8	1376.1	1271.9	1192.4	1130.8	1097.9	1076.6	1081.2
27.5°	1851.9	1788.6	1641.7	1475.2	1322.6	1195.3	1103.1	1044.9	1015.0	1004.0	1009.2
30°	1989.0	1891.7	1680.3	1433.2	1237.9	1098.5	1013.2	975.2	957.4	943.5	948.1
32.5°	2088.1	1964.3	1688.9	1362.3	1146.3	1010.4	952.2	924.0	904.4	891.1	894.0
35°	2159.0	2025.9	1684.9	1275.3	1050.7	937.8	903.8	880.8	849.1	820.3	815.1
37.5°	2254.0	2103.1	1655.5	1180.3	956.2	888.8	864.6	822.0	776.5	737.9	736.2
40°	2399.8	2193.5	1592.7	1068.5	875.6	852.5	823.2	767.9	718.9	687.8	685.5
42.5°	2550.1	2277.1	1507.5	951.0	809.3	814.5	778.8	724.1	694.1	674.0	671.7
45°	2733.9	2367.5	1415.3	849.1	760.4	778.8	740.2	708.5	690.7	677.4	674.0
47.5°	2932.6	2460.2	1311.6	757.5	718.9	746.0	724.1	709.7	699.9	690.7	686.6
50°	3146.9	2563.9	1214.3	683.8	681.4	712.0	722.3	717.2	711.4	708.5	705.1
52.5°	3381.9	2669.9	1132.5	631.9	648.6	687.8	722.9	727.0	727.0	725.2	722.9
55°	3540.9	2743.6	1049.5	589.9	615.2	668.2	721.8	737.3	743.1	740.8	738.5
57.5°	3658.4	2784.0	945.3	553.6	587.0	649.2	715.4	738.5	744.2	747.1	746.0
60°	3682.6	2746.5	808.8	515.5	556.4	621.5	692.4	721.2	728.7	746.5	748.3
62.5°	3573.7	2631.3	672.8	478.1	519.0	579.5	661.3	701.6	716.6	744.2	747.1
64°	3440.1	2502.3	597.3	454.5	494.8	555.9	645.7	696.4	716.0	752.9	755.2
65°	3342.1	2408.4	550.1	439.5	479.3	540.3	637.1	698.2	721.2	766.1	769.6
67.5°	2981.5	2085.2	455.1	404.4	442.4	513.8	638.8	712.6	720.0	771.3	770.7
70°	2467.1	1660.1	381.3	372.1	406.7	492.5	631.9	689.5	690.1	724.1	716.0
72.5°	1847.3	1226.9	330.6	338.7	366.9	441.8	596.8	658.4	648.6	653.2	645.2
75°	1269.0	811.6	284.6	303.0	325.5	390.6	547.2	597.9	582.4	576.6	570.8
77.5°	677.4	448.7	236.7	267.9	282.8	337.6	477.5	526.5	510.4	487.9	480.4
80°	274.2	211.4	190.7	221.8	230.4	271.9	397.5	428.0	415.9	376.7	364.1
82.5°	137.7	126.7	149.8	174.5	175.1	194.1	295.5	324.3	297.2	249.4	238.5
85°	72.0	74.3	103.1	122.7	108.3	104.8	177.4	196.4	180.3	156.7	141.1
87.5°	25.9	30.0	54.1	53.6	38.0	20.2	39.2	19.0	10.4	6.3	8.1
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)