

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: P529879

Luminaire Tested: **GALN-SA5A-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-740-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15147 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

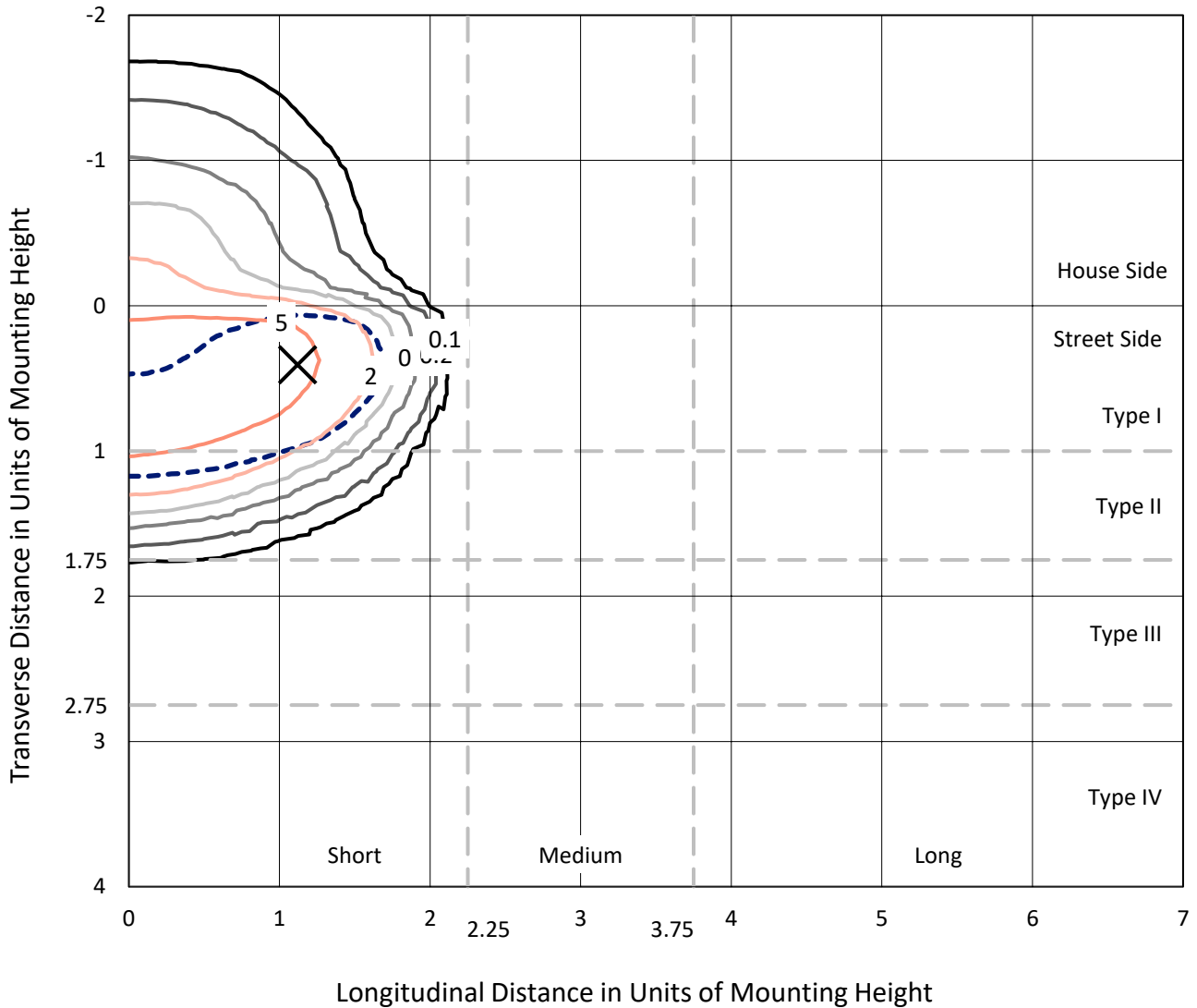
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

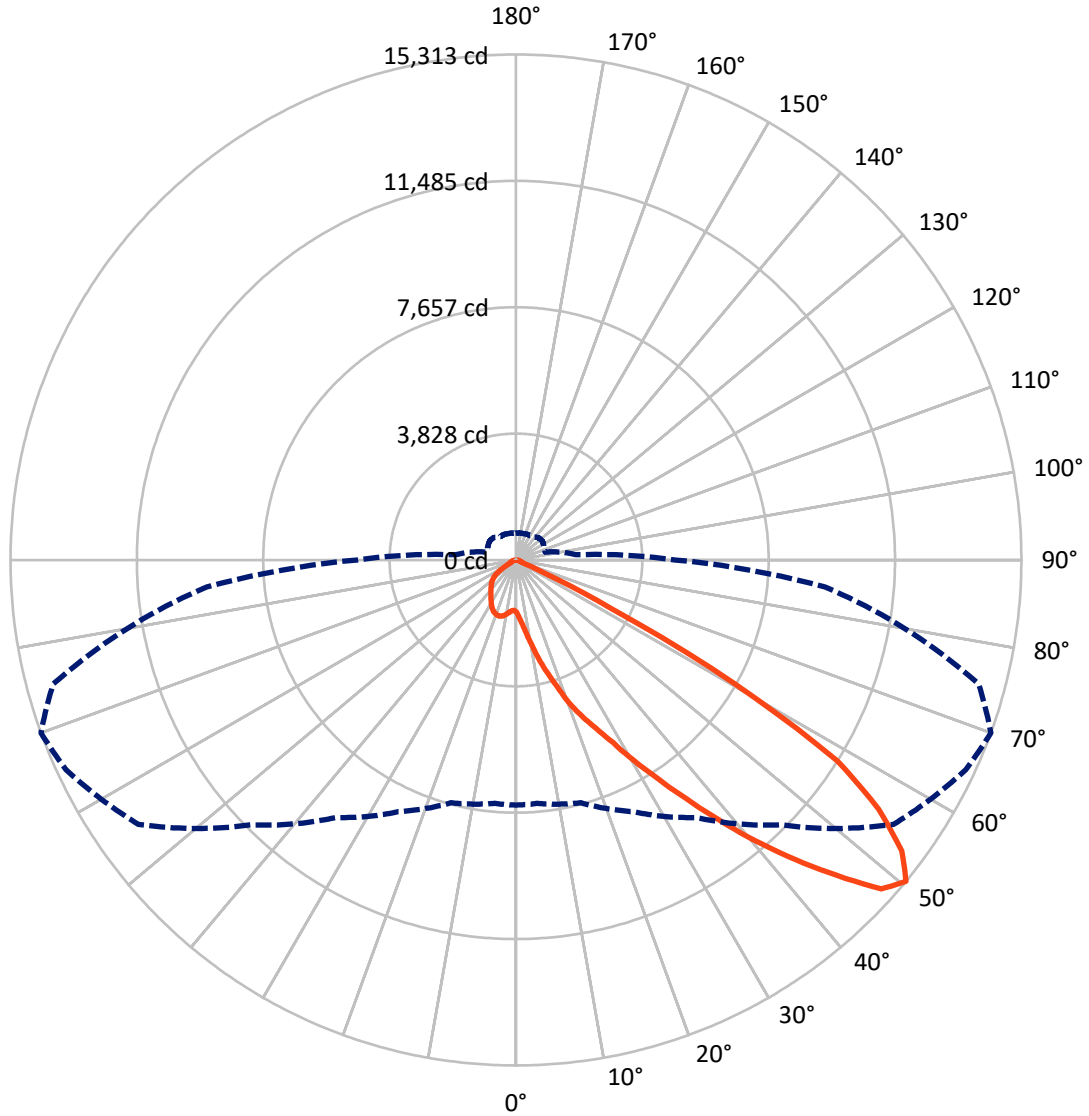
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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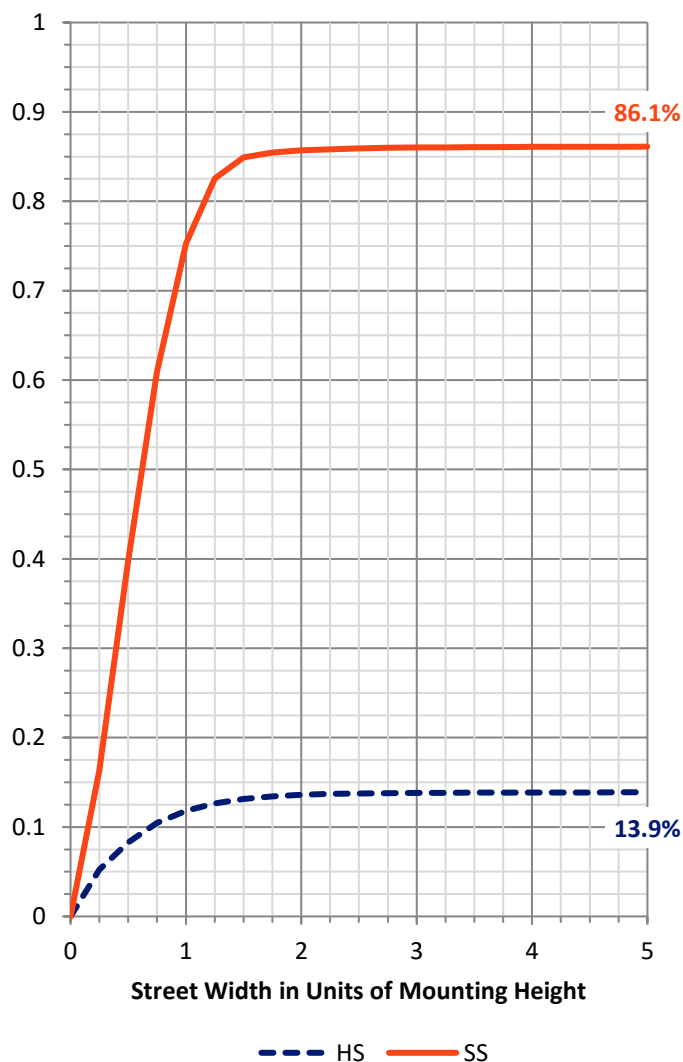
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2115.4	0.0	2115.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	13031.6	0.0	13031.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	15147.0	0.0	15147.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	1.3
10°-20°	882.5	5.8
20°-30°	1851.4	12.2
30°-40°	3191.1	21.1
40°-50°	4663.8	30.8
50°-60°	3632.3	24.0
60°-70°	615.4	4.1
70°-80°	84.5	0.6
80°-90°	21.9	0.1
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°	15147.0	100.0
0°-180°	15147.0	100.0

Coefficient of Utilization



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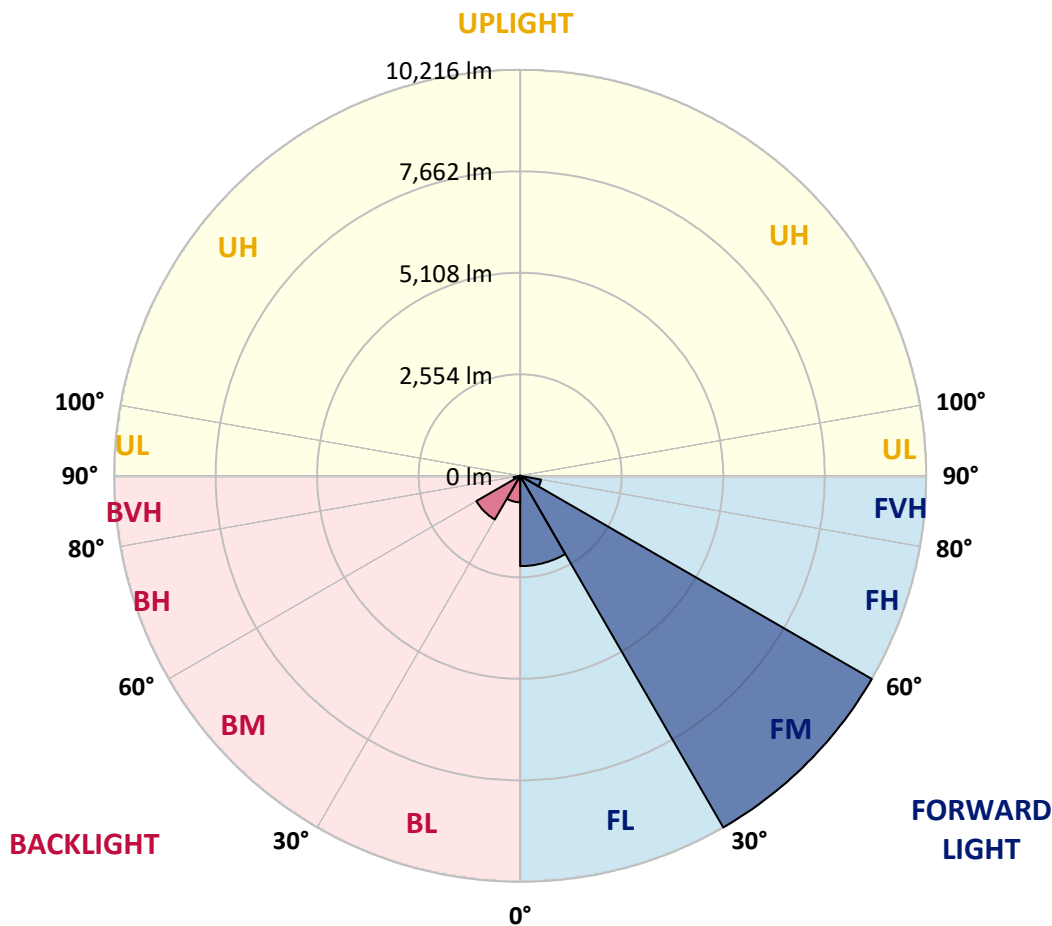
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2272.2	15.0			
FM (30°-60°)	10216.4	67.4			
FH (60°-80°)	532.9	3.5			G0/660
FVH (80°-90°)	10.1	0.1			G1/100
BL (0°-30°)	665.7	4.4	B2/1000		
BM (30°-60°)	1270.8	8.4	B2/2500		
BH (60°-80°)	167.1	1.1	B1/500		G1/500
BVH (80°-90°)	11.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1568.9	1568.9	1568.9	1568.9	1568.9	1568.9	1568.9	1568.9	1568.9	1568.9	1568.9
2.5°	2054.6	2039.6	2007.2	1947.5	1922.6	1862.8	1827.9	1760.7	1718.4	1671.0	1618.7
5°	2893.8	2816.6	2769.3	2702.0	2505.3	2383.3	2181.6	2009.7	1930.0	1842.9	1723.3
7.5°	3760.5	3710.6	3645.9	3501.5	3367.0	3113.0	2766.8	2388.3	2226.4	2077.0	1840.4
10°	4477.7	4338.2	4330.7	4223.7	4076.7	3772.9	3357.0	2886.3	2597.5	2378.3	2007.2
12.5°	4978.2	4851.2	4908.5	4896.1	4759.1	4480.2	3999.5	3376.9	3075.6	2734.4	2179.1
15°	5434.0	5381.7	5364.2	5349.3	5294.5	5087.8	4657.0	3974.6	3538.8	3127.9	2373.3
17.5°	5879.8	5745.3	5810.0	5822.5	5817.5	5630.7	5227.3	4542.4	4029.4	3543.8	2577.5
20°	6275.7	6288.2	6201.0	6183.6	6168.6	6161.2	5767.7	5105.3	4632.1	3979.6	2844.0
22.5°	6783.8	6696.6	6773.8	6724.0	6626.9	6567.1	6265.8	5603.3	5155.1	4505.1	3115.4
25°	7383.9	7453.7	7271.9	7251.9	7144.9	6938.2	6666.7	6161.2	5658.1	4993.2	3409.3
27.5°	8123.6	8001.5	7954.2	7844.7	7650.4	7563.2	7244.5	6736.4	6265.8	5506.2	3693.2
30°	8758.6	8726.2	8489.7	8360.2	8190.8	8188.3	7742.5	7515.9	7057.7	6310.6	4084.2
32.5°	9276.6	9134.7	9047.5	8957.8	8820.9	8858.2	8482.2	8362.7	7901.9	7057.7	4544.9
35°	9622.8	9520.7	9468.4	9331.4	9291.6	9458.4	9301.5	9251.7	8873.2	8108.6	5085.3
37.5°	9732.4	9764.7	9754.8	9582.9	9667.6	10118.4	10320.1	10190.6	9991.4	9216.8	5670.6
40°	9829.5	9851.9	9802.1	10003.8	10245.4	10758.4	11488.1	11273.9	11199.2	10340.0	6484.9
42.5°	9884.3	9866.8	9866.8	10215.5	10581.6	11612.6	12616.2	12474.2	12417.0	11535.4	7426.3
45°	9647.7	9478.3	9660.1	10133.3	10870.5	12033.5	13517.7	13714.4	13632.3	12957.4	8527.0
47.5°	8763.6	8868.2	8970.3	9602.9	10519.3	11904.0	14070.6	14740.5	14892.4	14152.8	9249.2
50°	7426.3	7403.9	7615.5	8412.5	9525.7	11346.1	13963.5	15036.8	15313.3	14511.4	9401.1
52.5°	5401.6	5566.0	5795.1	6587.0	7906.9	9901.7	12581.3	14272.3	14640.9	14070.6	9301.5
55°	3145.3	2963.5	3479.0	4149.0	5394.1	7468.6	10636.4	12651.1	13333.4	13268.7	8798.5
57.5°	1260.1	1220.3	1397.1	1882.7	2814.1	4629.6	7735.1	10394.8	11488.1	12153.0	7732.6
60°	552.9	540.4	635.0	767.0	1150.5	2134.2	4231.1	6465.0	7605.6	8492.1	5321.9
62.5°	398.5	393.5	440.8	488.1	607.6	928.9	1778.1	2604.9	3247.4	3922.3	2383.3
65°	321.3	333.7	366.1	391.0	448.3	515.5	627.6	724.7	889.1	921.4	525.5
67.5°	261.5	271.4	301.3	328.7	338.7	278.9	288.9	254.0	254.0	226.6	181.8
70°	191.8	194.2	229.1	261.5	209.2	112.1	196.7	196.7	176.8	169.3	154.4
72.5°	142.0	144.4	171.8	161.9	82.2	69.7	144.4	159.4	144.4	137.0	124.5
75°	104.6	107.1	89.7	37.4	34.9	44.8	84.7	109.6	104.6	102.1	94.6
77.5°	19.9	14.9	12.5	17.4	24.9	37.4	54.8	67.2	69.7	74.7	69.7
80°	2.5	2.5	7.5	14.9	27.4	39.8	57.3	64.7	67.2	69.7	64.7
82.5°	0.0	2.5	7.5	14.9	27.4	37.4	49.8	57.3	62.3	64.7	62.3
85°	0.0	2.5	5.0	12.5	22.4	27.4	24.9	17.4	14.9	17.4	12.5
87.5°	0.0	0.0	2.5	2.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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°	1568.9	1568.9	1568.9	1568.9	1568.9	1568.9	1568.9	1568.9	1568.9	1568.9	1568.9
2.5°	1588.9	1578.9	1544.0	1506.7	1474.3	1489.2	1474.3	1461.8	1466.8	1461.8	1456.9
5°	1676.0	1631.2	1556.5	1524.1	1496.7	1494.2	1486.7	1484.3	1486.7	1486.7	1464.3
7.5°	1758.2	1686.0	1606.3	1571.4	1539.0	1541.5	1524.1	1524.1	1521.6	1509.2	1504.2
10°	1882.7	1785.6	1683.5	1621.2	1581.4	1573.9	1556.5	1539.0	1539.0	1539.0	1514.1
12.5°	2019.7	1897.7	1758.2	1686.0	1638.7	1601.3	1573.9	1568.9	1541.5	1536.6	1524.1
15°	2139.2	1984.8	1808.0	1708.4	1648.6	1598.8	1556.5	1529.1	1516.6	1509.2	1499.2
17.5°	2256.3	2059.5	1835.4	1708.4	1643.6	1586.4	1541.5	1516.6	1486.7	1491.7	1471.8
20°	2413.2	2139.2	1842.9	1676.0	1596.3	1541.5	1481.8	1469.3	1451.9	1436.9	1441.9
22.5°	2565.1	2196.5	1820.5	1636.2	1521.6	1456.9	1427.0	1412.0	1404.6	1392.1	1374.7
25°	2702.0	2258.8	1785.6	1564.0	1441.9	1394.6	1367.2	1364.7	1347.3	1347.3	1314.9
27.5°	2841.5	2281.2	1725.8	1479.3	1372.2	1344.8	1332.3	1327.4	1319.9	1302.5	1280.0
30°	3000.9	2288.6	1638.7	1392.1	1309.9	1280.0	1297.5	1309.9	1277.6	1245.2	1255.1
32.5°	3132.9	2271.2	1534.1	1309.9	1265.1	1250.2	1285.0	1297.5	1260.1	1225.3	1207.8
35°	3292.3	2228.9	1432.0	1245.2	1220.3	1250.2	1280.0	1280.0	1205.3	1163.0	1153.0
37.5°	3533.8	2181.6	1337.3	1190.4	1173.0	1235.2	1275.1	1247.7	1130.6	1078.3	1065.9
40°	3792.8	2151.7	1245.2	1135.6	1148.1	1210.3	1232.7	1148.1	1028.5	996.1	986.2
42.5°	4168.9	2091.9	1163.0	1088.3	1125.6	1175.5	1175.5	1023.5	978.7	961.3	958.8
45°	4637.1	2049.6	1090.8	1048.4	1093.3	1105.7	1065.9	958.8	926.4	921.4	923.9
47.5°	4866.2	1967.4	1016.1	1001.1	1033.5	1036.0	931.4	906.5	879.1	871.6	866.6
50°	4831.3	1820.5	918.9	938.9	983.7	958.8	849.2	854.2	829.3	826.8	814.3
52.5°	4587.3	1588.9	821.8	869.1	918.9	846.7	782.0	777.0	777.0	744.6	732.2
55°	4066.8	1280.0	704.8	764.5	824.3	712.2	694.8	689.8	677.4	647.5	640.0
57.5°	3220.0	938.9	530.4	595.2	699.8	605.2	602.7	580.3	547.9	525.5	525.5
60°	1915.1	540.4	333.7	363.6	463.2	490.6	545.4	535.4	480.6	445.8	435.8
62.5°	874.1	278.9	211.7	216.7	249.0	318.8	428.3	495.6	418.4	358.6	353.6
65°	293.9	206.7	174.3	166.9	171.8	191.8	256.5	351.1	333.7	276.4	266.5
67.5°	179.3	184.3	164.4	151.9	151.9	149.4	146.9	159.4	196.7	191.8	194.2
70°	154.4	169.3	151.9	137.0	132.0	124.5	104.6	87.2	74.7	87.2	92.1
72.5°	124.5	134.5	129.5	117.0	104.6	94.6	74.7	57.3	42.3	37.4	37.4
75°	92.1	99.6	104.6	89.7	79.7	67.2	54.8	37.4	22.4	14.9	14.9
77.5°	67.2	74.7	77.2	69.7	59.8	47.3	34.9	24.9	12.5	5.0	5.0
80°	57.3	67.2	74.7	69.7	62.3	44.8	32.4	17.4	10.0	2.5	2.5
82.5°	54.8	67.2	74.7	67.2	59.8	42.3	32.4	19.9	7.5	2.5	2.5
85°	12.5	17.4	22.4	27.4	32.4	32.4	24.9	14.9	7.5	2.5	2.5
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	2.5	2.5	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)