

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: P527515

Luminaire Tested: **GALN-SA2C-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7865 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

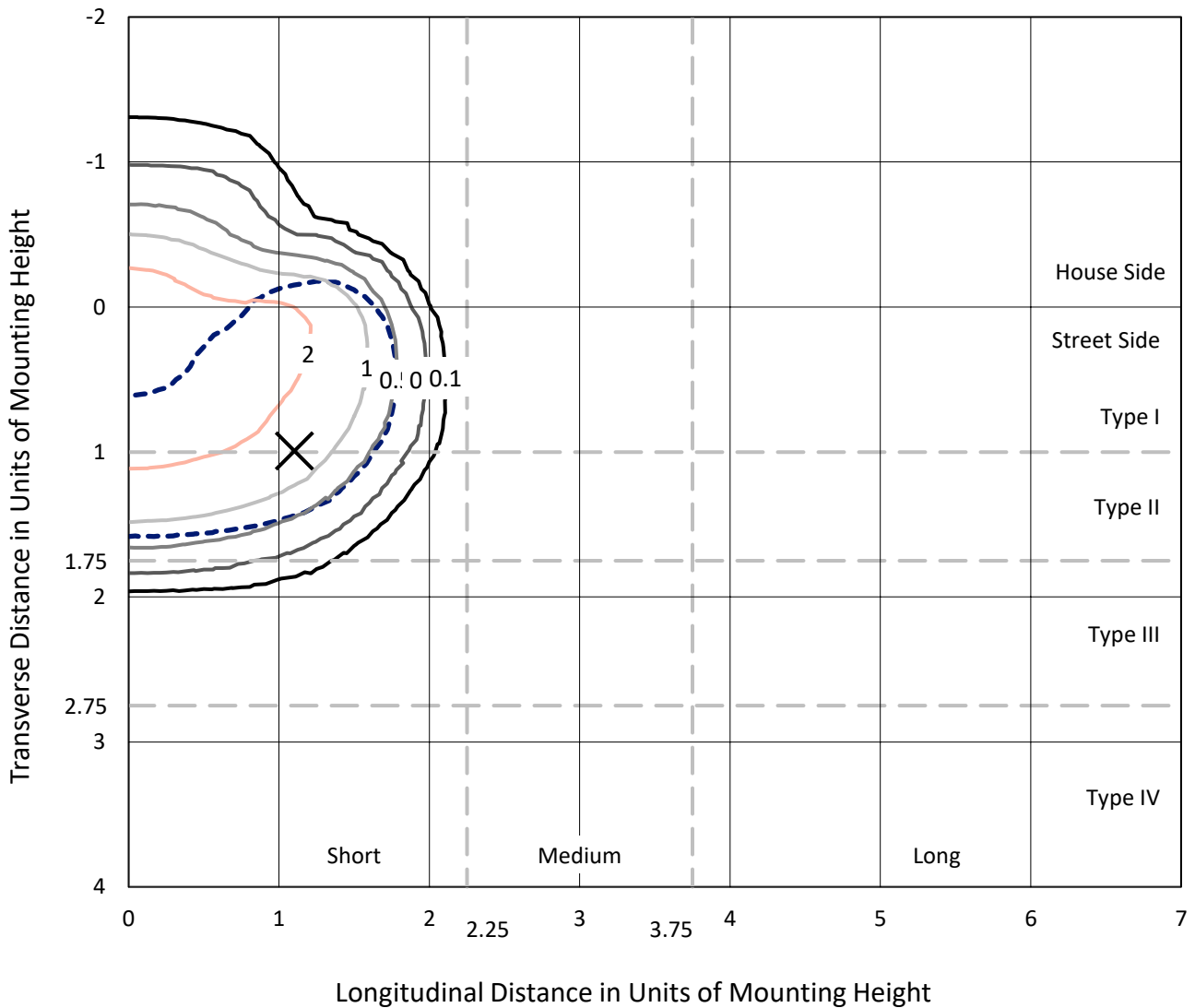
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

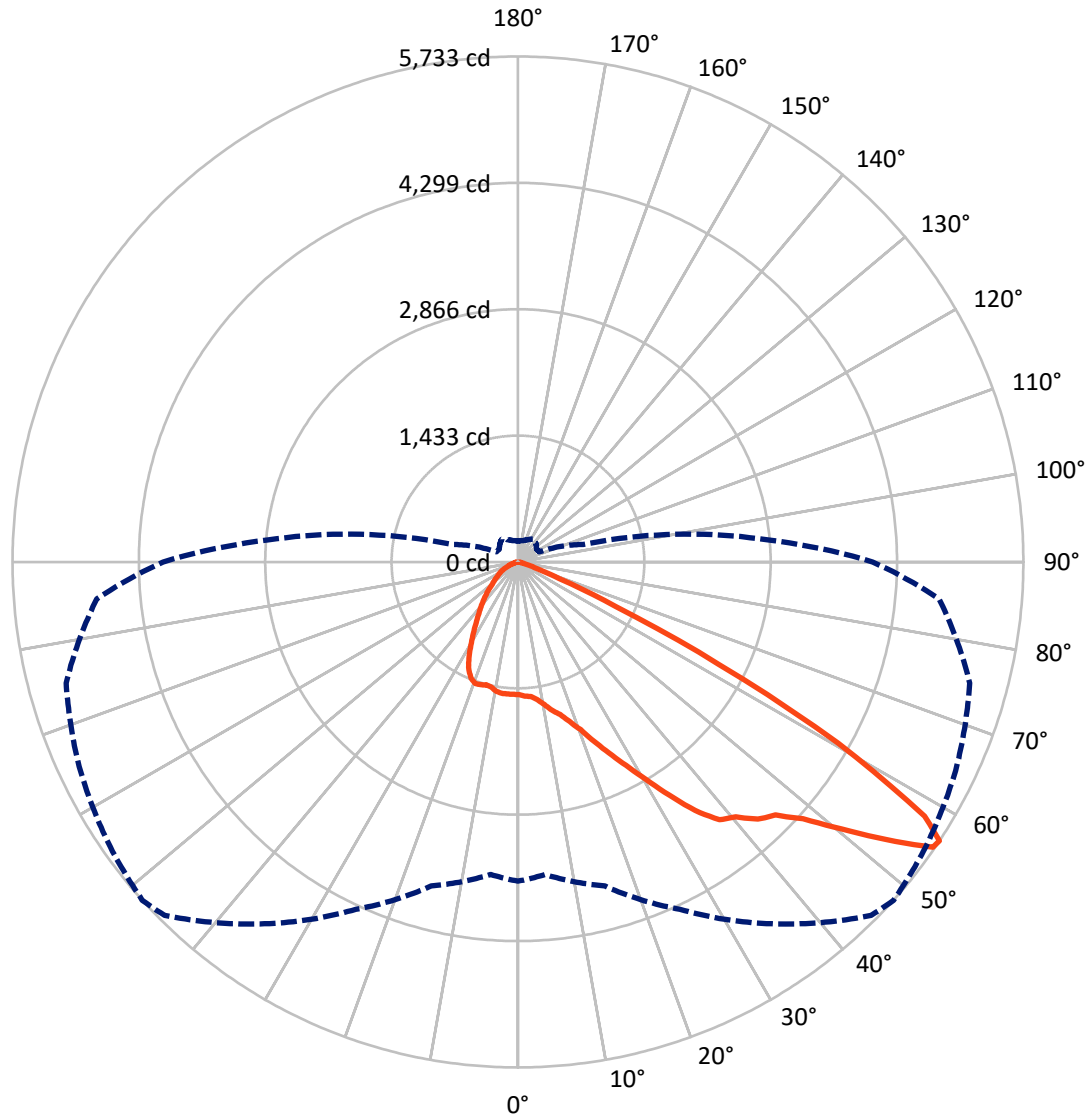
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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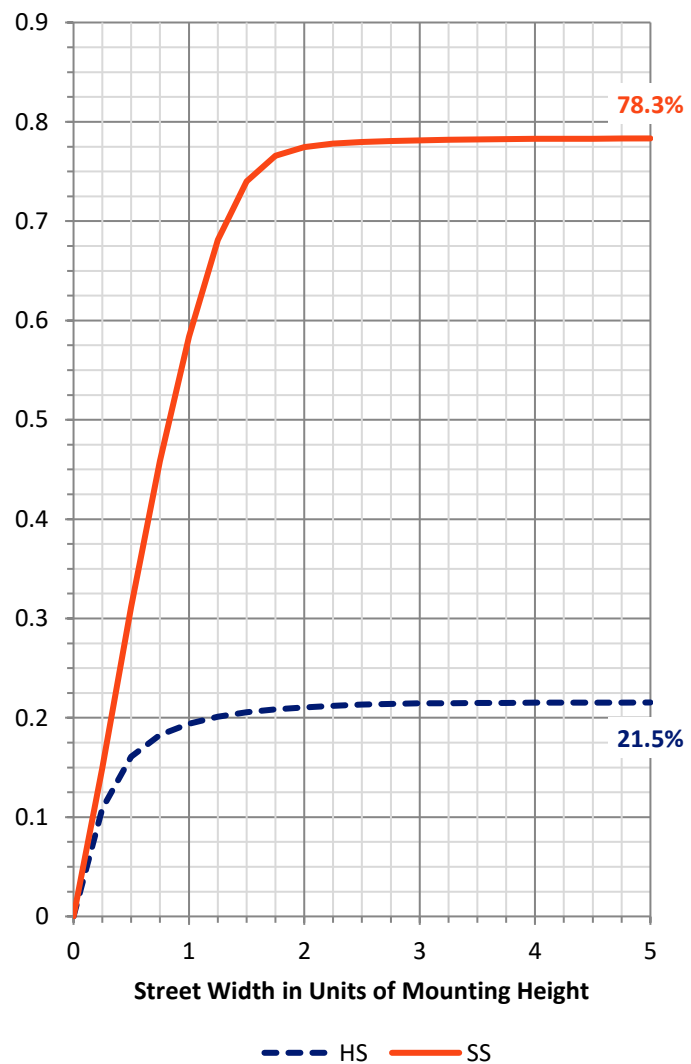
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1710.5	0.0	1710.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	6154.5	0.0	6154.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	7865.0	0.0	7865.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	1.9
10°-20°	467.7	5.9
20°-30°	848.2	10.8
30°-40°	1332.4	16.9
40°-50°	1943.7	24.7
50°-60°	2341.8	29.8
60°-70°	685.7	8.7
70°-80°	87.0	1.1
80°-90°	12.2	0.2
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°	7865.0	100.0
0°-180°	7865.0	100.0



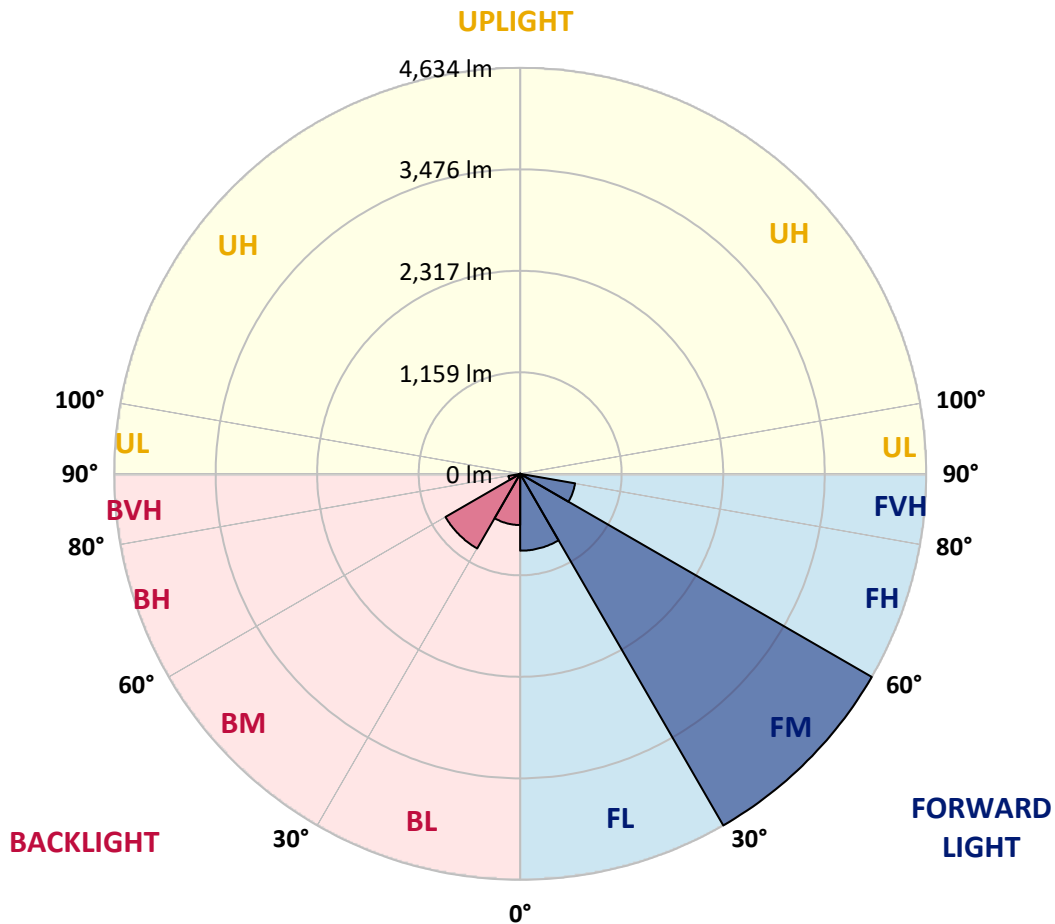
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	877.6	11.2			
FM (30°-60°)	4634.1	58.9			
FH (60°-80°)	636.7	8.1			G0/660
FVH (80°-90°)	6.1	0.1			G0/10
BL (0°-30°)	584.6	7.4	B2/1000		
BM (30°-60°)	983.9	12.5	B1/1000		
BH (60°-80°)	135.9	1.7	B1/500		G1/500
BVH (80°-90°)	6.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2
2.5°	1529.4	1522.3	1522.3	1510.8	1523.7	1518.0	1522.3	1507.9	1522.3	1500.8	1518.0
5°	1536.6	1538.0	1532.3	1539.5	1539.5	1548.0	1533.7	1546.6	1553.8	1538.0	1530.9
7.5°	1573.8	1576.7	1575.3	1569.5	1581.0	1579.5	1578.1	1568.1	1571.0	1565.2	1556.6
10°	1646.9	1645.4	1652.6	1638.3	1629.7	1639.7	1642.6	1626.8	1615.4	1611.1	1583.8
12.5°	1752.8	1735.6	1725.6	1711.3	1715.6	1701.3	1727.0	1699.8	1694.1	1668.3	1641.1
15°	1838.7	1835.9	1837.3	1814.4	1788.6	1794.4	1794.4	1780.0	1771.4	1739.9	1701.3
17.5°	2014.9	1954.7	1967.6	1939.0	1917.5	1916.1	1903.2	1906.1	1883.1	1817.3	1758.6
20°	2152.4	2126.6	2106.5	2057.9	2024.9	2034.9	2029.2	2014.9	2007.7	1921.8	1838.7
22.5°	2275.5	2284.1	2251.2	2238.3	2192.5	2196.8	2208.2	2195.3	2140.9	2052.1	1929.0
25°	2448.8	2438.8	2394.4	2378.6	2335.7	2351.4	2395.8	2385.8	2351.4	2191.0	1999.1
27.5°	2653.6	2619.2	2627.8	2556.2	2514.7	2559.1	2612.1	2662.2	2564.8	2354.3	2082.2
30°	2798.2	2762.4	2759.6	2756.7	2746.7	2798.2	2859.8	2905.6	2826.9	2517.5	2219.7
32.5°	2869.8	2878.4	2902.8	2894.2	2981.5	3087.5	3151.9	3217.8	3119.0	2783.9	2401.5
35°	3060.3	3005.9	3060.3	3066.0	3156.2	3381.1	3462.7	3620.2	3595.9	3160.5	2623.5
37.5°	3172.0	3167.7	3174.9	3229.3	3316.6	3594.4	3710.4	3832.2	3786.3	3386.8	2899.9
40°	3356.7	3368.2	3366.7	3408.3	3504.2	3754.8	3802.1	3900.9	3905.2	3700.4	3306.6
42.5°	3653.2	3607.3	3577.3	3620.2	3754.8	3893.7	3988.3	3968.2	4110.0	4081.3	3829.3
45°	3919.5	3946.7	3902.3	3973.9	4022.6	4097.1	4094.2	4137.2	4317.6	4453.7	4223.1
47.5°	4168.7	4185.9	4207.4	4256.0	4362.0	4373.5	4349.1	4330.5	4579.7	4720.0	4528.1
50°	4317.6	4333.4	4433.6	4521.0	4718.6	4744.4	4758.7	4711.4	4880.4	4896.2	4816.0
52.5°	4277.5	4294.7	4435.1	4722.9	5037.9	5274.2	5231.3	5151.1	5141.1	5202.6	5082.3
55°	3922.4	3906.6	4100.0	4548.2	5138.2	5705.3	5711.0	5626.5	5464.7	5423.2	5042.2
56°	3620.2	3558.6	3805.0	4346.3	5009.3	5668.0	5732.5	5642.3	5490.5	5304.3	4794.5
57.5°	2965.8	3024.5	3269.4	3717.6	4563.9	5400.3	5437.5	5416.0	5301.4	4989.3	4218.8
60°	1635.4	1738.5	1954.7	2503.2	3249.3	4144.3	4174.4	4349.1	4370.6	3820.7	2902.8
62.5°	694.5	683.1	907.9	1311.8	1850.2	2501.8	2557.6	2736.6	2769.6	2202.5	1456.4
65°	282.1	297.9	411.0	660.2	978.1	1139.9	1218.7	1277.4	1386.2	909.4	537.0
67.5°	186.2	184.7	242.0	376.6	527.0	508.4	508.4	537.0	496.9	370.9	232.0
70°	133.2	137.5	173.3	260.6	327.9	243.4	233.4	223.4	253.5	244.9	187.6
72.5°	87.4	93.1	116.0	156.1	170.4	133.2	133.2	160.4	209.1	197.6	153.2
75°	57.3	58.7	71.6	90.2	84.5	68.7	75.9	107.4	151.8	146.1	108.8
77.5°	38.7	40.1	48.7	58.7	47.3	38.7	41.5	54.4	74.5	74.5	57.3
80°	14.3	15.8	20.0	18.6	21.5	27.2	30.1	37.2	44.4	44.4	38.7
82.5°	0.0	1.4	4.3	10.0	15.8	21.5	24.3	28.6	32.9	37.2	35.8
85°	0.0	1.4	4.3	7.2	11.5	12.9	14.3	10.0	8.6	8.6	7.2
87.5°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	2.9	1.4	1.4
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°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2
2.5°	1502.2	1500.8	1500.8	1496.5	1505.1	1500.8	1503.7	1502.2	1483.6	1497.9	1487.9
5°	1518.0	1528.0	1512.2	1509.4	1497.9	1502.2	1502.2	1487.9	1500.8	1499.4	1496.5
7.5°	1558.1	1540.9	1523.7	1506.5	1503.7	1499.4	1483.6	1477.9	1487.9	1476.4	1493.6
10°	1575.3	1578.1	1552.3	1529.4	1507.9	1477.9	1456.4	1443.5	1427.8	1444.9	1455.0
12.5°	1654.0	1625.4	1581.0	1545.2	1472.1	1442.1	1420.6	1414.9	1442.1	1447.8	1437.8
15°	1681.2	1676.9	1619.6	1539.5	1463.6	1427.8	1432.0	1420.6	1423.5	1409.1	1412.0
17.5°	1737.1	1688.4	1621.1	1520.8	1462.1	1453.5	1427.8	1381.9	1356.1	1344.7	1354.7
20°	1798.7	1751.4	1654.0	1528.0	1475.0	1452.1	1367.6	1311.8	1258.8	1230.1	1231.6
22.5°	1853.1	1794.4	1639.7	1530.9	1486.5	1392.0	1290.3	1180.0	1114.1	1069.7	1071.2
25°	1918.9	1835.9	1645.4	1536.6	1456.4	1296.0	1149.9	1042.5	963.8	933.7	943.7
27.5°	1956.2	1861.7	1676.9	1549.5	1377.6	1160.0	1002.4	902.2	856.4	842.0	840.6
30°	2067.9	1918.9	1715.6	1523.7	1245.9	1013.9	867.8	806.2	761.8	749.0	751.8
32.5°	2234.0	2023.5	1765.7	1456.4	1111.3	883.6	780.5	734.6	693.1	668.8	665.9
35°	2372.9	2202.5	1818.7	1351.9	955.2	783.3	718.9	661.6	598.6	571.4	564.2
37.5°	2637.8	2404.4	1807.2	1194.3	806.2	708.9	653.0	582.8	528.4	491.2	486.9
40°	2990.1	2640.7	1751.4	1002.4	696.0	643.0	582.8	515.5	448.2	416.7	413.9
42.5°	3418.3	2930.0	1649.7	807.7	585.7	577.1	522.7	445.4	385.2	362.3	363.7
45°	3766.3	3177.7	1546.6	648.7	504.1	512.7	465.4	392.4	350.9	332.2	332.2
47.5°	4075.6	3345.3	1434.9	535.6	428.2	448.2	406.7	363.7	327.9	313.6	310.8
50°	4373.5	3515.7	1323.2	433.9	365.2	385.2	380.9	346.6	317.9	300.7	302.2
52.5°	4559.6	3542.9	1181.4	355.1	319.3	342.3	356.6	325.1	293.6	283.5	280.7
55°	4331.9	3192.0	916.5	292.1	270.7	300.7	327.9	292.1	267.8	250.6	249.2
56°	4025.5	2854.1	766.1	269.2	256.3	289.3	317.9	279.2	252.0	242.0	234.9
57.5°	3408.3	2335.7	565.7	239.2	237.7	269.2	302.2	266.4	234.9	226.3	226.3
60°	2125.2	1314.6	342.3	200.5	206.2	239.2	272.1	237.7	209.1	209.1	213.4
62.5°	968.1	547.0	207.6	170.4	177.6	206.2	242.0	214.8	199.1	214.8	217.7
65°	329.4	236.3	150.4	136.0	140.3	170.4	207.6	217.7	216.2	226.3	232.0
67.5°	184.7	151.8	126.0	113.1	110.3	126.0	170.4	217.7	209.1	204.8	207.6
70°	156.1	128.9	111.7	100.2	95.9	101.7	131.7	164.7	147.5	143.2	140.3
72.5°	126.0	107.4	97.4	90.2	77.3	65.9	60.1	63.0	70.2	74.5	81.6
75°	88.8	81.6	81.6	73.0	55.8	41.5	32.9	27.2	18.6	12.9	14.3
77.5°	50.1	50.1	51.6	44.4	35.8	27.2	20.0	14.3	7.2	2.9	1.4
80°	34.4	37.2	40.1	35.8	30.1	24.3	17.2	10.0	4.3	0.0	0.0
82.5°	34.4	38.7	41.5	35.8	30.1	22.9	17.2	10.0	4.3	1.4	0.0
85°	7.2	8.6	10.0	11.5	17.2	17.2	12.9	8.6	4.3	1.4	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	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)