

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: P528150

Luminaire Tested: **GALN-SA3B-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12819 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

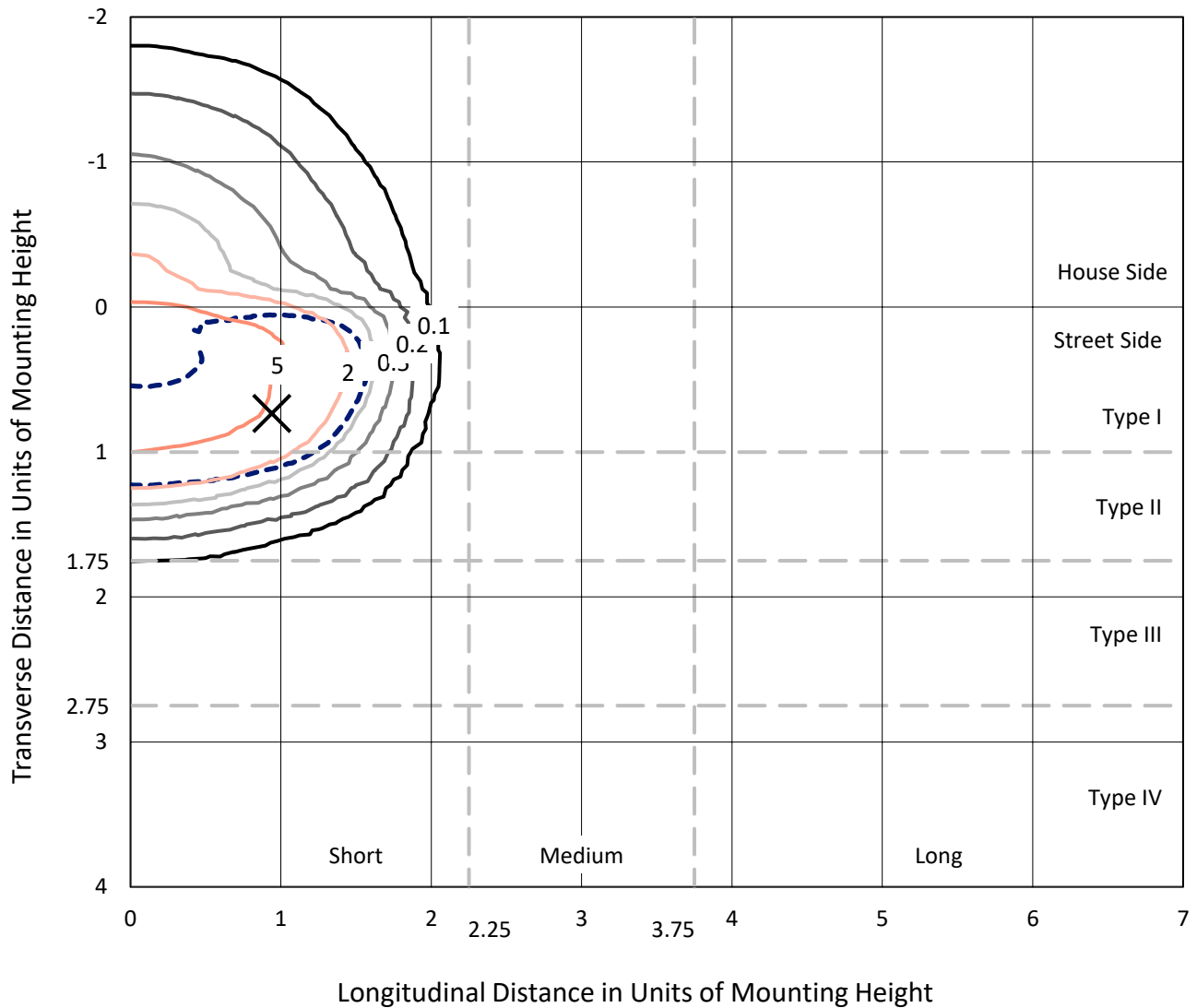
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

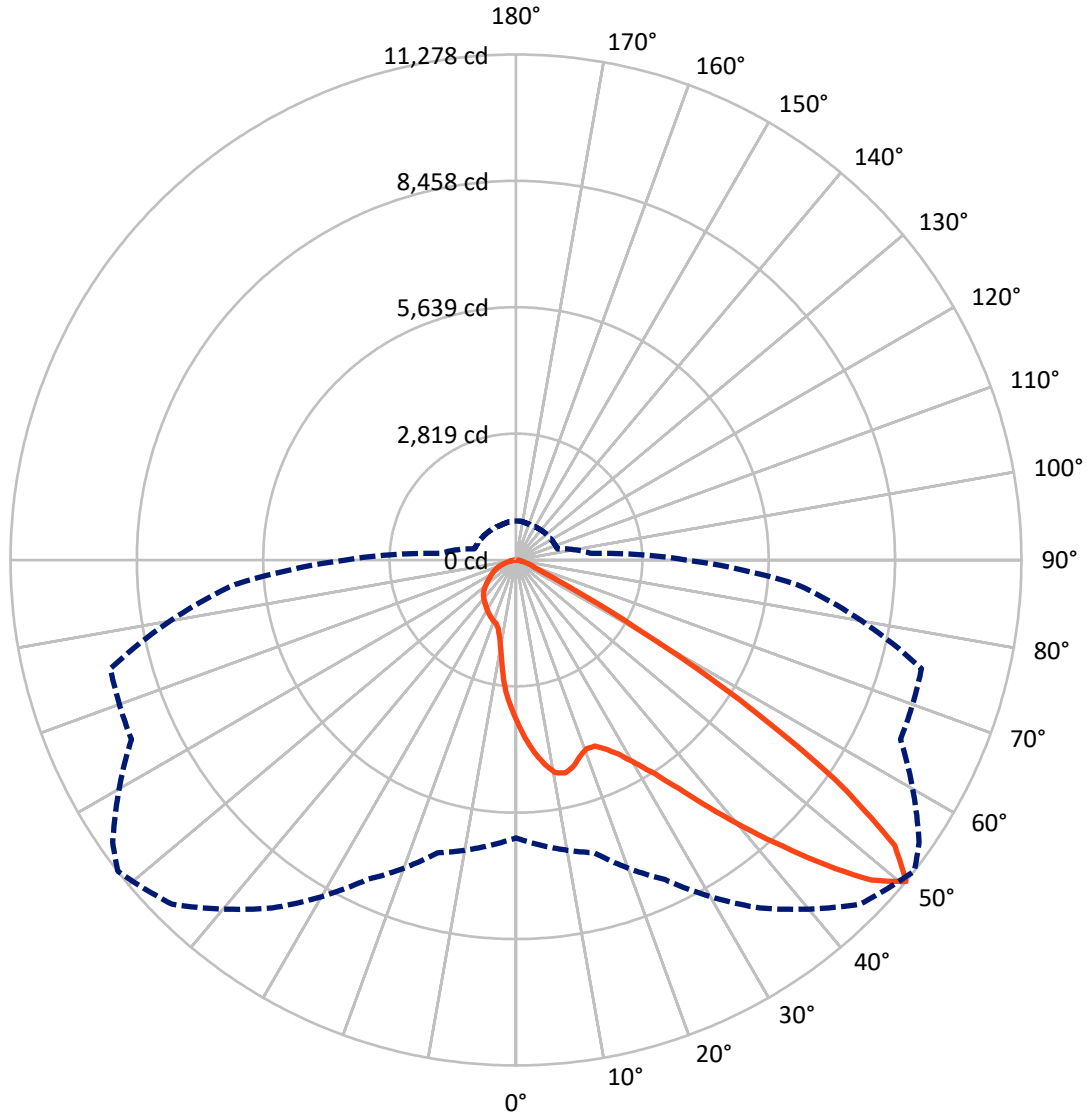
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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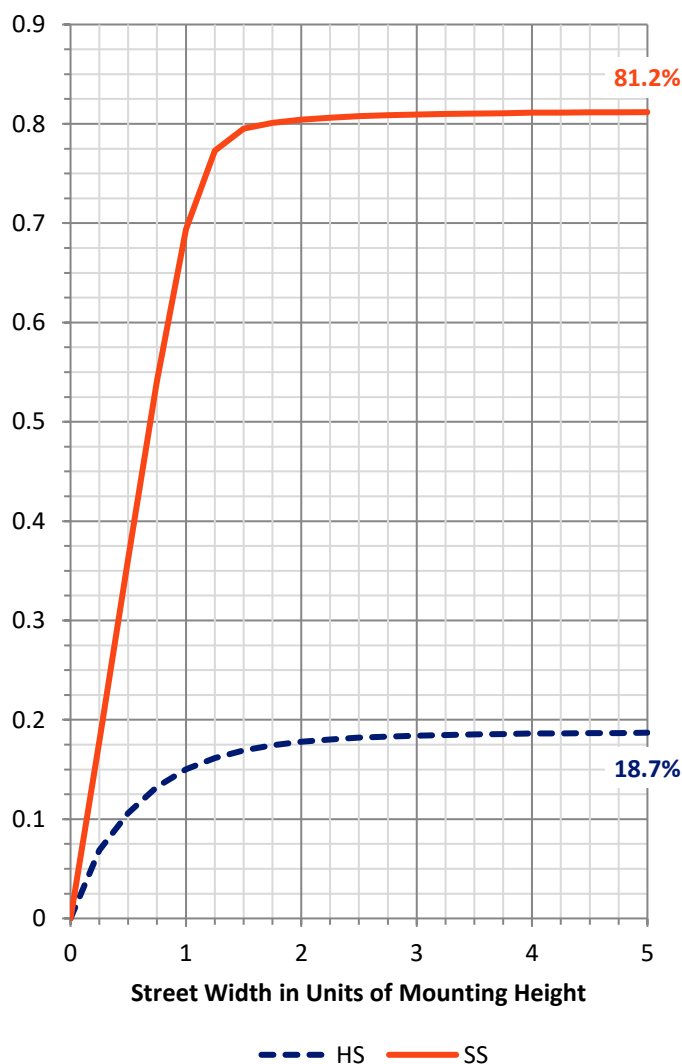
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2409.7	0.0	2409.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	10409.3	0.0	10409.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	12819.0	0.0	12819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.1	2.6
10°-20°	892.7	7.0
20°-30°	1503.7	11.7
30°-40°	2523.3	19.7
40°-50°	3860.0	30.1
50°-60°	2814.2	22.0
60°-70°	626.3	4.9
70°-80°	225.9	1.8
80°-90°	40.0	0.3
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°	12819.0	100.0
0°-180°	12819.0	100.0

Coefficient of Utilization

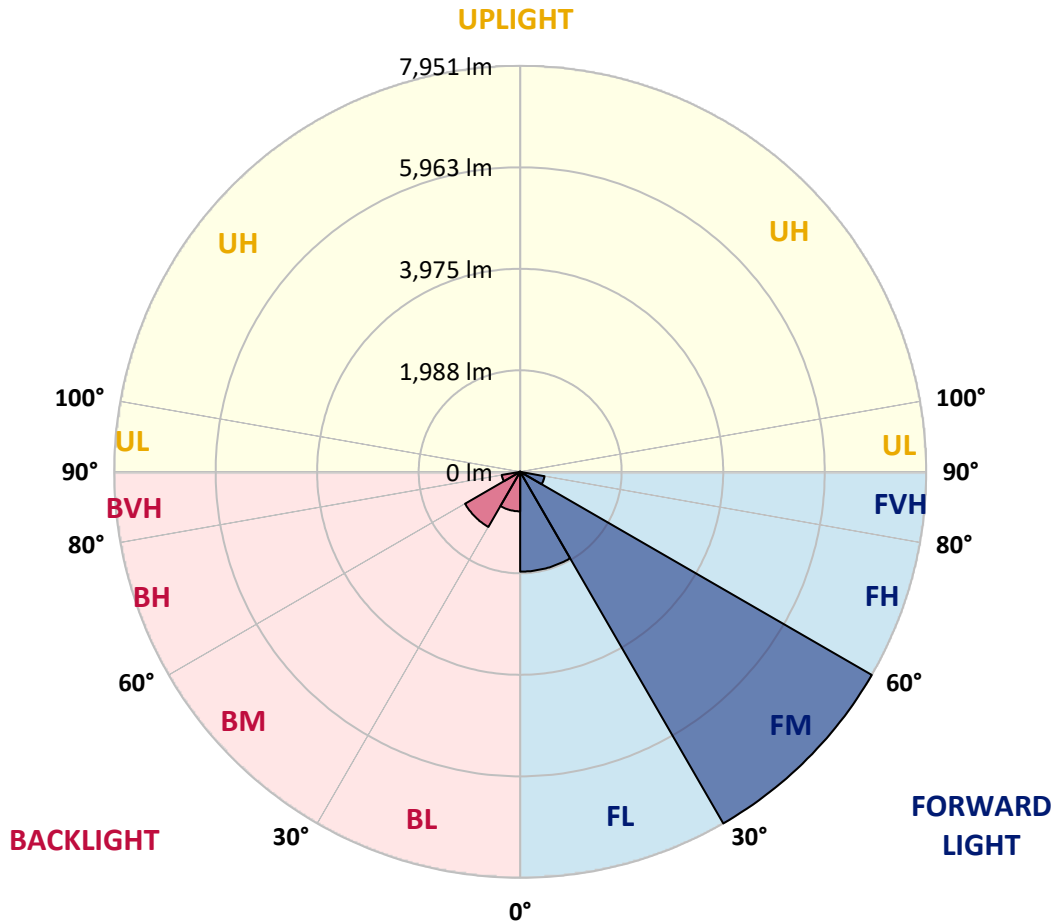


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1955.3	15.3			
FM (30°-60°)	7951.0	62.0			
FH (60°-80°)	485.1	3.8			G0/660
FVH (80°-90°)	17.9	0.1			G1/100
BL (0°-30°)	774.0	6.0	B2/1000		
BM (30°-60°)	1246.4	9.7	B2/2500		
BH (60°-80°)	367.1	2.9	B1/500		G1/500
BVH (80°-90°)	22.1	0.2			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3613.5	3613.5	3613.5	3613.5	3613.5	3613.5	3613.5	3613.5	3613.5	3613.5	3613.5
2.5°	4254.6	4172.7	4182.0	4123.3	4059.9	4041.4	3976.5	3914.7	3868.4	3769.5	3678.3
5°	4650.1	4625.4	4588.3	4541.9	4494.0	4376.6	4310.2	4233.0	4063.0	3910.1	3758.7
7.5°	4707.2	4702.6	4722.7	4722.7	4739.7	4694.9	4600.6	4546.6	4365.8	4117.1	3835.9
10°	4305.6	4319.5	4416.8	4543.5	4719.6	4841.6	4826.2	4812.3	4614.5	4274.7	3927.1
12.5°	3985.8	3954.9	4012.0	4120.2	4384.4	4679.4	4878.7	4880.3	4829.3	4526.5	3993.5
15°	3805.0	3826.7	3842.1	3893.1	4092.4	4433.8	4784.5	4888.0	5112.0	4704.1	4098.6
17.5°	3920.9	3848.3	3845.2	3857.6	3959.5	4216.0	4609.9	4787.6	5266.5	4932.8	4228.3
20°	4072.3	4070.7	4027.5	4012.0	4010.5	4239.1	4495.6	4736.6	5348.4	5229.4	4359.6
22.5°	4338.0	4338.0	4266.9	4233.0	4160.3	4347.3	4511.0	4674.8	5484.3	5433.3	4423.0
25°	4782.9	4710.3	4588.3	4504.9	4463.1	4529.6	4674.8	4821.6	5603.3	5649.6	4554.3
27.5°	5193.9	5079.6	5019.3	4875.6	4820.0	4781.4	4914.2	5062.6	5742.3	5986.4	4625.4
30°	5660.4	5640.3	5532.2	5346.8	5209.3	5138.3	5260.3	5407.1	5997.2	6330.9	4789.1
32.5°	6494.7	6312.4	6165.6	5938.5	5714.5	5563.1	5683.6	5780.9	6420.5	6690.9	4968.3
35°	7395.3	7336.6	7083.3	6673.9	6330.9	6195.0	6266.0	6338.6	6913.3	7240.8	5269.6
37.5°	8280.5	8200.2	7991.6	7647.1	7230.0	6953.5	7004.5	7089.4	7466.4	7982.4	5637.3
40°	8917.0	8818.1	8713.1	8662.1	8248.1	7869.6	7840.2	7861.9	8214.1	8677.6	6045.1
42.5°	8963.4	9085.4	9117.9	9323.3	9226.0	8915.5	8734.7	8739.4	8927.8	9365.0	6457.6
45°	8866.0	8753.3	8992.7	9553.5	9874.8	10020.1	9715.7	9677.1	9369.7	9763.6	6663.0
47.5°	7844.9	7875.8	8280.5	9167.3	10095.8	10744.6	10673.5	10545.3	9606.0	9749.7	6630.6
50°	6201.1	6388.1	6763.5	7868.1	9477.8	10858.9	11277.6	10981.0	9465.5	9366.6	6300.0
52.5°	4129.5	4206.7	4453.9	5879.8	7620.9	9706.5	10582.4	10650.4	9335.7	8864.5	5881.3
55°	1838.4	1832.2	2179.8	3071.2	4781.4	7386.0	8646.7	9060.7	8836.7	8353.1	5473.5
57.5°	778.6	804.9	947.0	1327.0	2351.3	4457.0	5858.2	6221.2	6795.9	6859.2	4199.0
60°	526.8	529.9	568.5	664.3	984.1	2093.3	3072.8	3508.4	3919.3	3891.5	2227.7
62.5°	414.0	424.8	454.2	492.8	584.0	950.1	1374.9	1617.5	1643.7	1382.7	845.0
65°	353.8	355.3	384.7	417.1	457.3	553.1	662.8	675.1	682.8	658.1	621.0
67.5°	292.0	295.1	318.2	355.3	392.4	423.3	454.2	469.6	505.2	574.7	565.4
70°	231.7	236.4	256.4	287.3	321.3	339.9	378.5	392.4	424.8	478.9	500.5
72.5°	176.1	177.7	194.7	216.3	247.2	265.7	298.2	313.6	335.2	381.6	401.7
75°	126.7	131.3	143.7	154.5	159.1	171.5	202.4	219.4	250.3	270.4	271.9
77.5°	66.4	69.5	72.6	72.6	88.1	111.2	131.3	140.6	162.2	177.7	169.9
80°	26.3	27.8	35.5	47.9	61.8	80.3	94.2	98.9	117.4	126.7	131.3
82.5°	15.4	17.0	23.2	34.0	44.8	57.2	68.0	72.6	85.0	95.8	98.9
85°	7.7	9.3	13.9	21.6	29.4	35.5	34.0	32.4	32.4	30.9	32.4
87.5°	3.1	3.1	4.6	4.6	4.6	6.2	7.7	7.7	7.7	9.3	9.3
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°	3613.5	3613.5	3613.5	3613.5	3613.5	3613.5	3613.5	3613.5	3613.5	3613.5	3613.5
2.5°	3618.1	3556.3	3499.1	3394.1	3279.8	3247.3	3114.5	3066.6	3032.6	2992.4	2980.1
5°	3636.6	3554.8	3370.9	3159.3	2990.9	2774.6	2632.5	2479.5	2368.3	2340.5	2332.8
7.5°	3675.3	3534.7	3218.0	2898.2	2553.7	2260.2	2036.1	1915.6	1809.0	1802.9	1792.1
10°	3718.5	3474.4	3051.1	2549.0	2108.8	1836.9	1702.5	1649.9	1623.7	1617.5	1614.4
12.5°	3754.0	3462.1	2864.2	2209.2	1793.6	1629.8	1589.7	1585.0	1595.9	1598.9	1605.1
15°	3769.5	3412.6	2638.6	1904.8	1597.4	1537.2	1554.1	1572.7	1580.4	1600.5	1585.0
17.5°	3798.8	3349.3	2360.6	1663.8	1487.7	1498.5	1527.9	1549.5	1561.9	1575.8	1555.7
20°	3814.3	3292.1	2099.5	1520.2	1449.1	1469.2	1509.3	1526.3	1541.8	1548.0	1524.8
22.5°	3800.4	3174.7	1869.3	1404.3	1412.0	1438.3	1473.8	1492.3	1483.1	1458.4	1444.5
25°	3763.3	3009.4	1629.8	1330.1	1359.5	1405.8	1433.6	1419.7	1402.7	1388.8	1384.2
27.5°	3761.8	2807.0	1456.8	1262.2	1314.7	1378.0	1368.8	1356.4	1364.1	1353.3	1341.0
30°	3769.5	2610.8	1314.7	1223.5	1282.2	1313.1	1324.0	1311.6	1320.9	1300.8	1307.0
32.5°	3729.3	2419.3	1222.0	1178.7	1243.6	1242.1	1277.6	1286.9	1265.3	1223.5	1229.7
35°	3746.3	2264.8	1143.2	1158.7	1200.4	1200.4	1228.2	1217.4	1160.2	1135.5	1141.7
37.5°	3863.7	2113.4	1104.6	1130.8	1158.7	1171.0	1161.7	1115.4	1101.5	1101.5	1104.6
40°	3975.0	1983.6	1081.4	1124.7	1120.0	1127.8	1059.8	1064.4	1064.4	1066.0	1058.2
42.5°	4073.8	1895.6	1062.9	1087.6	1095.3	1055.1	1013.4	1008.8	1019.6	1018.1	1011.9
45°	4109.4	1823.0	1036.6	1045.9	1052.1	985.6	965.5	956.3	968.6	973.3	979.5
47.5°	3973.4	1762.7	1007.3	988.7	976.4	933.1	906.8	889.8	905.3	931.6	937.7
50°	3798.8	1683.9	960.9	925.4	899.1	880.6	862.0	845.0	855.9	874.4	869.8
52.5°	3540.9	1560.3	902.2	865.1	820.3	825.0	808.0	798.7	804.9	804.9	800.2
55°	3173.2	1282.2	803.3	777.1	740.0	752.4	755.4	743.1	730.7	741.5	732.3
57.5°	2165.9	905.3	716.8	716.8	679.7	696.7	695.2	665.8	636.5	639.6	633.4
60°	1252.9	721.5	661.2	655.0	616.4	630.3	633.4	613.3	568.5	571.6	565.4
62.5°	712.2	616.4	577.8	568.5	560.8	573.1	573.1	546.9	508.3	511.4	505.2
65°	605.6	571.6	516.0	514.4	511.4	514.4	502.1	474.3	440.3	426.4	427.9
67.5°	550.0	528.3	474.3	460.4	451.1	449.6	426.4	400.1	384.7	372.3	370.8
70°	482.0	465.0	424.8	406.3	397.0	375.4	352.2	335.2	313.6	307.4	313.6
72.5°	381.6	380.0	364.6	344.5	324.4	307.4	287.3	264.2	244.1	239.5	228.6
75°	264.2	267.3	270.4	267.3	250.3	228.6	205.5	186.9	162.2	148.3	145.2
77.5°	173.0	177.7	182.3	176.1	165.3	145.2	129.8	106.6	88.1	77.2	75.7
80°	126.7	132.9	135.9	131.3	119.0	103.5	86.5	68.0	54.1	44.8	44.8
82.5°	97.3	103.5	106.6	98.9	86.5	74.2	61.8	47.9	37.1	29.4	27.8
85°	34.0	32.4	38.6	40.2	47.9	44.8	37.1	27.8	21.6	15.4	13.9
87.5°	9.3	9.3	10.8	10.8	9.3	7.7	7.7	7.7	6.2	4.6	4.6
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)