

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: P530307

Luminaire Tested: **GALN-SA5C-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24467 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

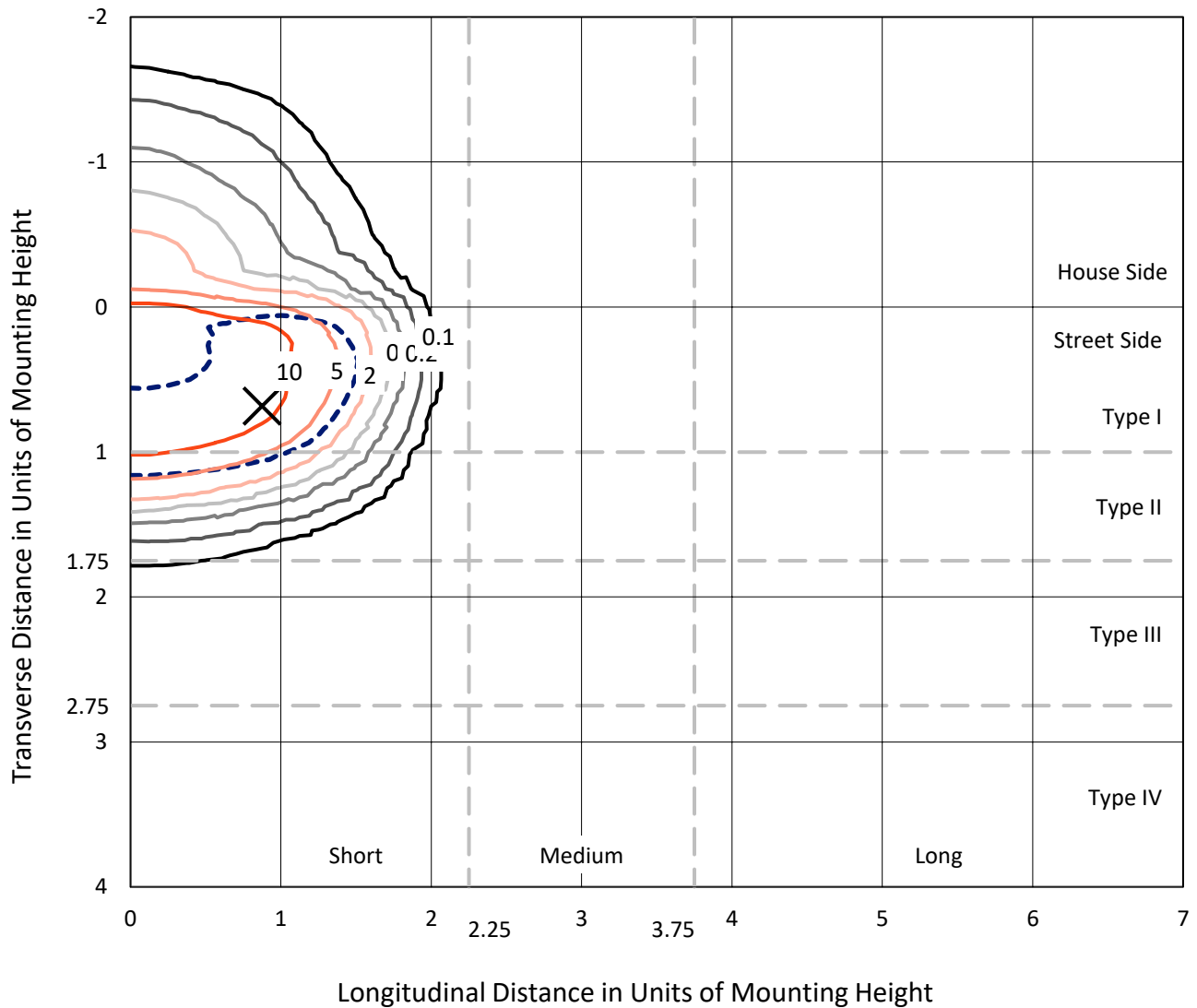
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

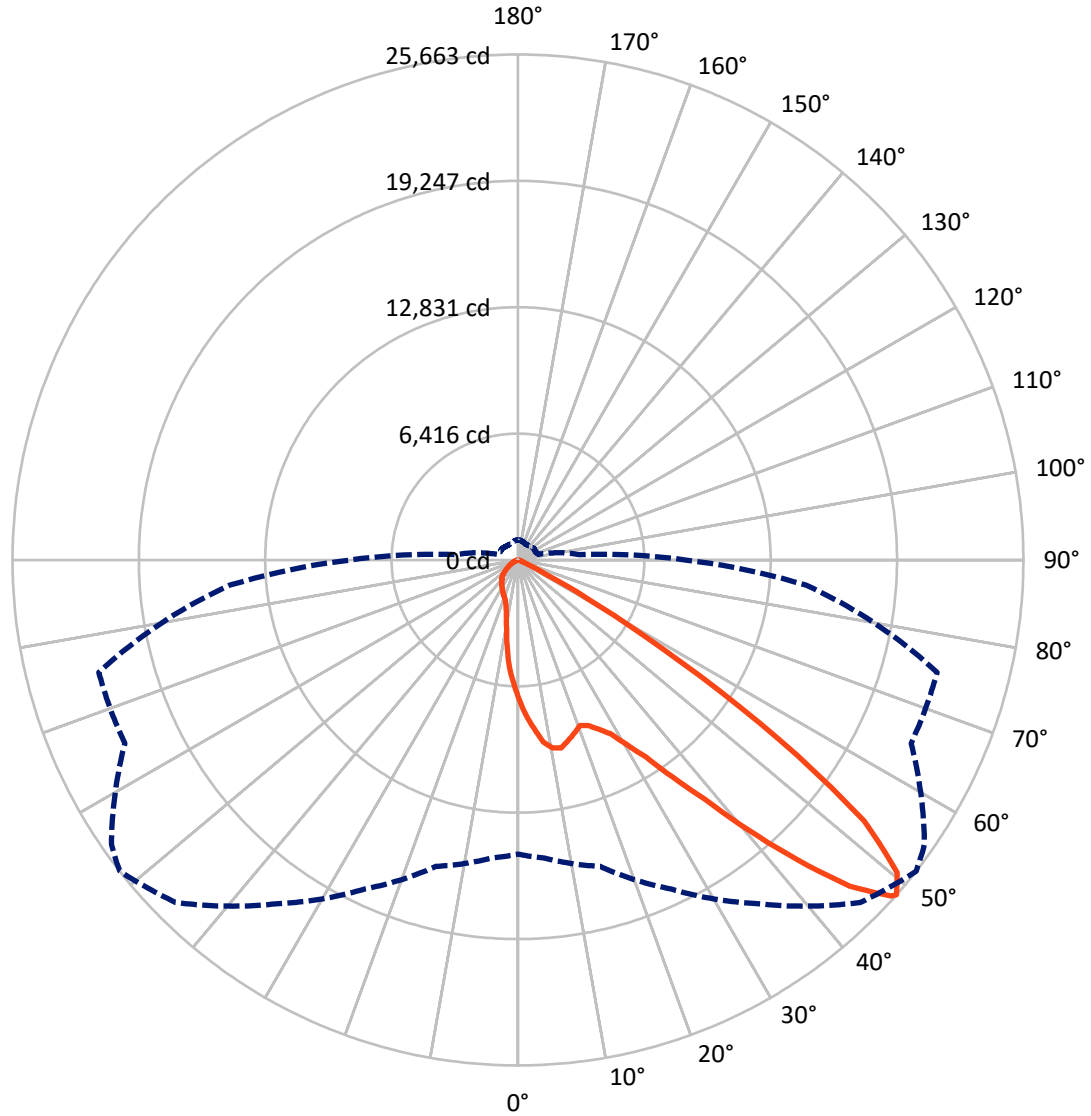
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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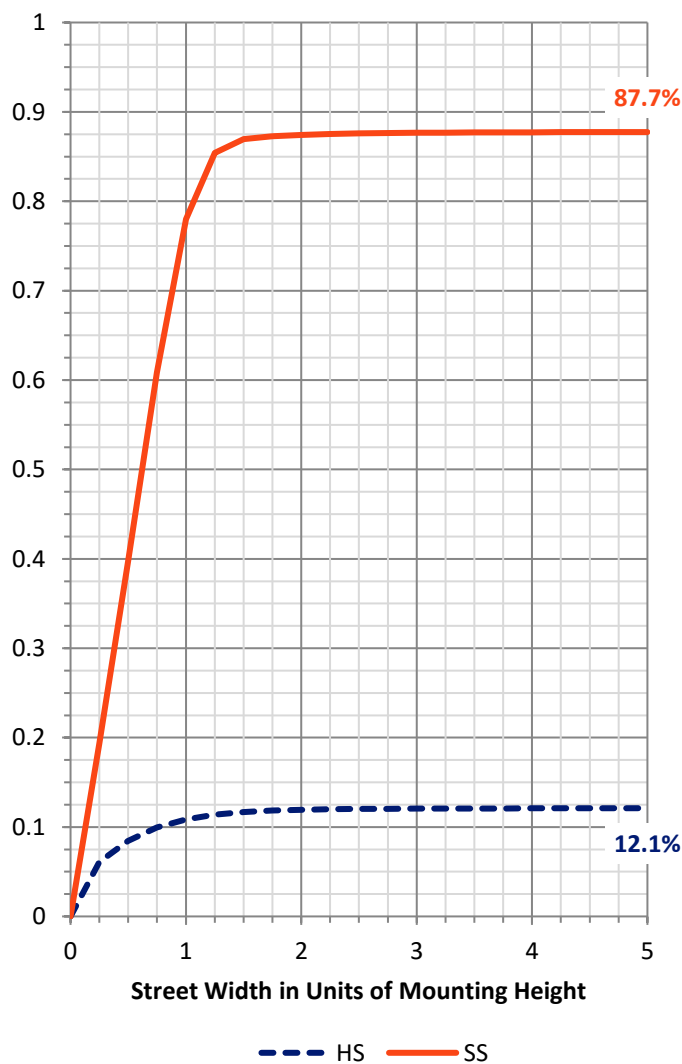
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2979.1	0.0	2979.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	21488.0	0.0	21488.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	24467.0	0.0	24467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.7	2.6
10°-20°	1690.1	6.9
20°-30°	2885.7	11.8
30°-40°	5314.0	21.7
40°-50°	8252.6	33.7
50°-60°	4966.7	20.3
60°-70°	574.4	2.3
70°-80°	111.2	0.5
80°-90°	25.7	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°	24467.0	100.0
0°-180°	24467.0	100.0

Coefficient of Utilization



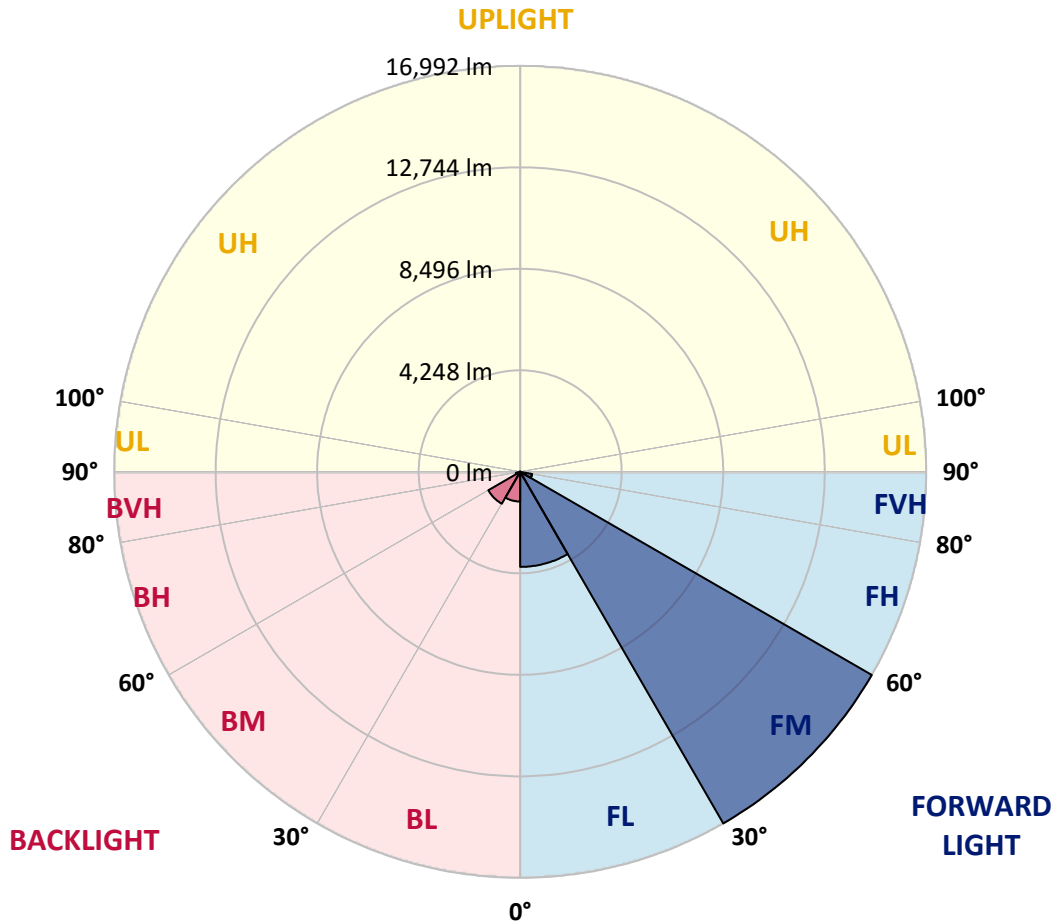
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3978.0	16.3			
FM (30°-60°)	16991.9	69.4			
FH (60°-80°)	505.8	2.1			G0/660
FVH (80°-90°)	12.2	0.1			G1/100
BL (0°-30°)	1244.5	5.1	B3/2500		
BM (30°-60°)	1541.3	6.3	B2/2500		
BH (60°-80°)	179.8	0.7	B1/500		G1/500
BVH (80°-90°)	13.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7
2.5°	8563.7	8367.5	8385.3	8256.9	8182.0	8060.8	7896.7	7864.6	7686.3	7443.7	7197.6
5°	9334.1	9287.7	9348.4	9162.9	9170.0	8970.3	8585.1	8592.2	8182.0	7786.1	7404.5
7.5°	9384.0	9277.0	9337.7	9501.7	9598.0	9562.4	9344.8	9155.8	8767.0	8185.6	7629.2
10°	8403.2	8606.5	8670.7	8941.8	9327.0	9733.6	9708.6	9719.3	9394.7	8635.0	7821.8
12.5°	7814.7	7679.1	7896.7	8060.8	8642.2	9430.4	9790.6	9869.1	9894.1	9070.2	8014.4
15°	7547.2	7547.2	7582.8	7629.2	8050.1	8777.7	9512.4	9740.7	10279.3	9640.8	8317.6
17.5°	7714.8	7707.7	7757.6	7661.3	7818.2	8378.2	9255.6	9516.0	10710.8	10200.8	8556.6
20°	8224.8	8249.8	8217.7	7939.5	7950.2	8371.1	8970.3	9380.5	11003.3	10685.9	8874.0
22.5°	8934.6	8948.9	8767.0	8463.8	8374.6	8581.5	9134.4	9448.2	11238.7	11267.3	8970.3
25°	9755.0	9697.9	9662.2	9234.2	8963.2	9141.5	9505.3	9687.2	11385.0	11766.6	9244.9
27.5°	10892.7	10778.6	10561.0	10179.4	9979.7	9726.4	9986.8	10286.4	11802.3	12465.7	9544.5
30°	12572.7	12472.8	12048.4	11556.2	11031.9	10782.2	10864.2	11028.3	12554.8	13275.3	9940.4
32.5°	15101.5	14891.0	14277.6	13339.5	12626.2	11937.8	11916.4	12091.2	13228.9	14395.3	10411.2
35°	17887.1	17822.9	16920.5	15953.9	14573.6	13510.7	13528.6	13621.3	14520.1	15864.8	11028.3
37.5°	19738.2	20091.3	19517.1	18479.2	17320.0	15800.5	15415.3	15447.4	16292.8	17605.3	12141.1
40°	21168.5	20868.9	20936.6	20694.1	19902.3	18867.9	18015.5	17847.8	18343.6	19531.3	13246.8
42.5°	20544.3	20558.5	20975.9	21550.1	21746.3	21671.4	20801.1	20483.6	20098.4	21107.8	14299.0
45°	18782.3	19149.7	19691.8	21211.3	22545.2	23797.1	23625.9	23098.0	21311.1	22356.2	14905.3
47.5°	15971.8	15957.5	16845.6	18821.6	21785.5	24717.3	25494.9	25123.9	22170.7	22217.1	14780.5
48°	14933.8	15190.6	16107.3	18432.8	21304.0	24581.8	25662.5	25195.3	22024.5	22031.6	14673.5
50°	11039.0	10992.6	12134.0	14987.3	19028.4	23098.0	24956.3	25320.1	22020.9	21093.6	13924.5
52.5°	5831.6	6031.3	6862.4	9423.3	13453.7	18903.6	22013.8	22580.9	21243.4	19559.9	12847.3
55°	2478.9	2239.9	2878.3	4255.1	7568.6	12629.7	16150.1	17412.7	17962.0	17309.3	11238.7
57.5°	884.5	966.6	1112.8	1601.5	3181.5	6912.3	9630.1	10611.0	12444.3	12701.1	7657.7
60°	567.1	577.8	624.2	734.7	1194.8	2664.3	4569.0	5350.1	6181.1	6380.9	3573.8
62.5°	438.7	442.3	463.7	481.5	567.1	1034.3	1715.6	2033.0	2111.5	1815.5	938.0
65°	367.4	370.9	378.1	378.1	403.0	485.1	599.2	659.8	642.0	634.9	531.4
67.5°	281.8	288.9	303.2	303.2	317.4	296.0	331.7	353.1	399.5	485.1	453.0
70°	221.1	224.7	235.4	242.5	242.5	214.0	239.0	260.4	292.5	360.2	356.7
72.5°	171.2	178.3	185.5	185.5	174.8	146.2	171.2	189.0	210.4	249.7	242.5
75°	132.0	132.0	135.5	110.6	85.6	74.9	103.4	124.8	156.9	164.1	135.5
77.5°	35.7	39.2	35.7	32.1	35.7	53.5	67.8	78.5	99.9	99.9	89.2
80°	0.0	3.6	10.7	21.4	35.7	49.9	60.6	67.8	78.5	85.6	82.0
82.5°	0.0	3.6	10.7	21.4	32.1	39.2	53.5	57.1	64.2	74.9	74.9
85°	0.0	3.6	7.1	14.3	21.4	25.0	25.0	21.4	21.4	17.8	14.3
87.5°	0.0	0.0	3.6	7.1	7.1	10.7	10.7	10.7	10.7	10.7	10.7
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°	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7
2.5°	7101.3	6990.8	6823.1	6559.2	6306.0	6141.9	5984.9	5810.2	5713.9	5706.7	5653.2
5°	7186.9	6937.3	6537.8	6084.8	5599.7	5182.4	4761.6	4486.9	4240.8	4105.3	4080.3
7.5°	7233.3	6908.7	6263.2	5503.4	4676.0	3994.7	3523.9	3177.9	3042.4	2942.5	2939.0
10°	7329.6	6858.8	5853.0	4733.0	3709.4	3021.0	2696.4	2539.5	2464.6	2436.1	2393.3
12.5°	7400.9	6766.1	5432.1	3941.2	2931.8	2503.8	2361.2	2325.5	2329.1	2343.3	2325.5
15°	7500.8	6684.0	4865.0	3235.0	2461.0	2254.2	2254.2	2261.3	2311.2	2318.4	2314.8
17.5°	7493.7	6523.5	4280.1	2664.3	2175.7	2147.2	2157.9	2225.6	2257.7	2268.4	2243.5
20°	7579.3	6373.7	3677.3	2275.6	2015.2	2058.0	2129.3	2147.2	2186.4	2193.5	2165.0
22.5°	7554.3	5999.2	3117.3	1968.8	1893.9	1976.0	2047.3	2068.7	2058.0	2036.6	2033.0
25°	7507.9	5678.2	2603.7	1765.5	1804.8	1893.9	1961.7	1922.5	1901.1	1904.6	1908.2
27.5°	7425.9	5271.6	2179.3	1622.9	1683.5	1815.5	1811.9	1797.6	1819.0	1801.2	1819.0
30°	7411.6	4865.0	1829.7	1494.5	1594.3	1690.6	1697.8	1722.7	1747.7	1715.6	1747.7
32.5°	7433.0	4419.2	1580.1	1416.0	1540.8	1544.4	1622.9	1647.8	1630.0	1558.7	1565.8
35°	7597.1	4076.8	1398.2	1373.2	1455.2	1458.8	1533.7	1501.6	1423.1	1380.3	1405.3
37.5°	7943.1	3791.4	1312.6	1334.0	1341.1	1387.5	1391.0	1326.8	1334.0	1330.4	1344.7
40°	8385.3	3573.8	1251.9	1298.3	1291.2	1323.3	1194.8	1230.5	1262.6	1273.3	1280.5
42.5°	8688.5	3416.9	1212.7	1241.2	1227.0	1169.9	1098.5	1134.2	1159.2	1198.4	1205.5
45°	8824.1	3292.1	1166.3	1141.3	1141.3	1037.9	1009.4	1016.5	1073.6	1116.4	1109.2
47.5°	8602.9	3170.8	1084.3	1009.4	1034.3	948.7	916.6	916.6	977.3	1030.8	1020.1
48°	8517.3	3120.9	1087.8	980.8	998.7	934.5	902.4	895.2	963.0	1012.9	1012.9
50°	8092.9	2935.4	995.1	902.4	866.7	859.6	838.2	845.3	888.1	934.5	934.5
52.5°	7265.4	2535.9	841.7	774.0	709.8	752.6	763.3	749.0	770.4	813.2	809.6
55°	6063.4	1947.4	674.1	642.0	592.1	638.4	659.8	642.0	620.6	652.7	652.7
57.5°	3884.2	1048.6	538.6	545.7	495.8	542.1	560.0	517.2	477.9	502.9	499.3
60°	1751.3	627.7	442.3	431.6	399.5	453.0	481.5	431.6	378.1	395.9	413.7
62.5°	656.3	445.8	335.3	328.1	321.0	370.9	385.2	346.0	292.5	303.2	306.7
65°	481.5	392.3	267.5	242.5	256.8	292.5	285.3	246.1	210.4	210.4	217.6
67.5°	410.2	342.4	217.6	189.0	189.0	192.6	178.3	156.9	146.2	153.4	160.5
70°	321.0	271.1	171.2	146.2	132.0	117.7	103.4	99.9	89.2	99.9	96.3
72.5°	206.9	181.9	132.0	110.6	99.9	82.0	67.8	64.2	53.5	49.9	49.9
75°	110.6	110.6	103.4	89.2	78.5	64.2	53.5	42.8	28.5	21.4	21.4
77.5°	78.5	85.6	92.7	85.6	71.3	53.5	42.8	28.5	14.3	7.1	7.1
80°	74.9	85.6	92.7	82.0	71.3	53.5	39.2	21.4	10.7	3.6	3.6
82.5°	67.8	78.5	85.6	74.9	64.2	46.4	35.7	21.4	10.7	3.6	3.6
85°	14.3	17.8	21.4	21.4	25.0	32.1	25.0	17.8	7.1	3.6	3.6
87.5°	10.7	10.7	10.7	10.7	10.7	10.7	7.1	7.1	3.6	3.6	3.6
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)