

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: P526056

Luminaire Tested: **GALN-SA1A-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH
WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3246 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

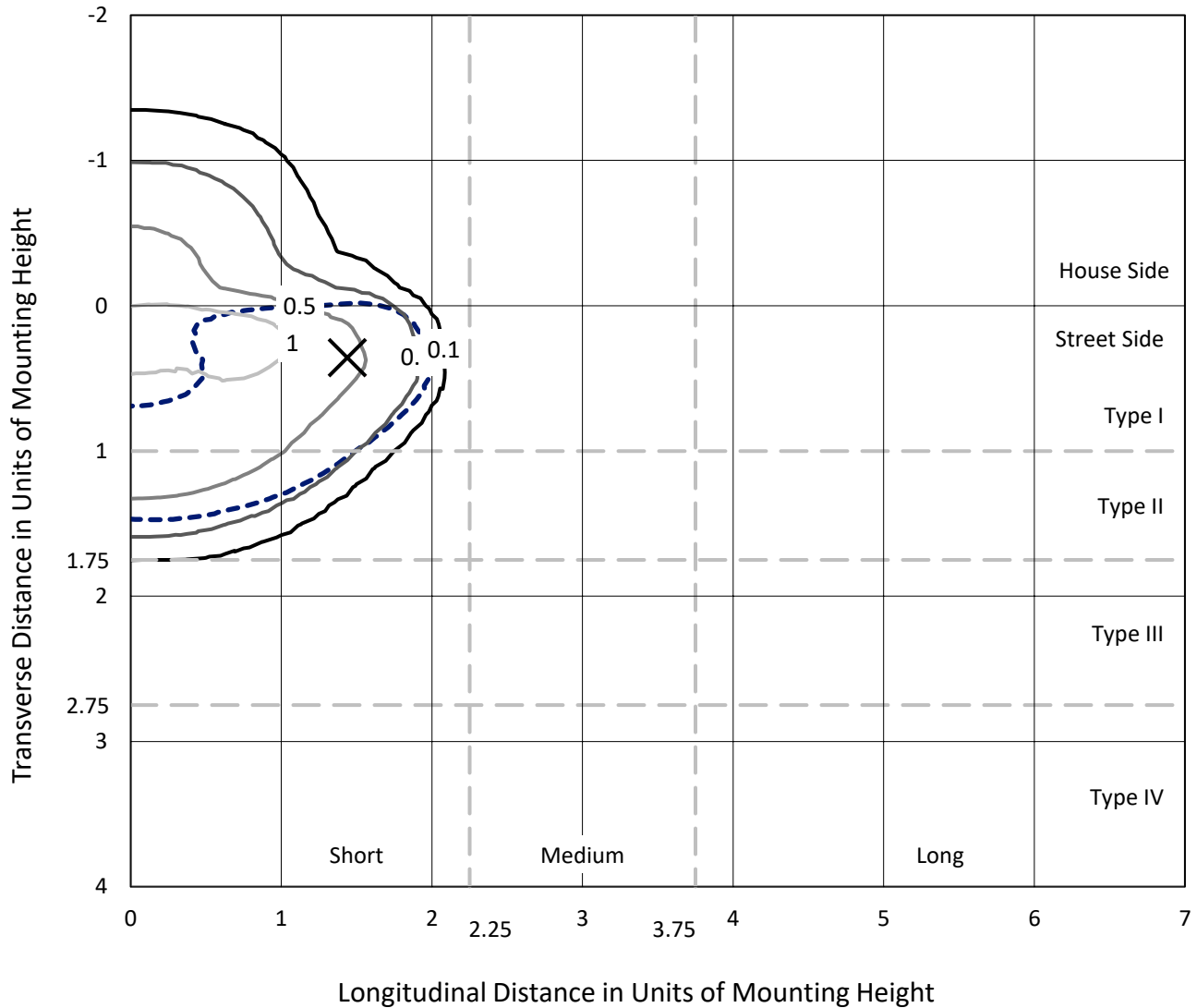
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

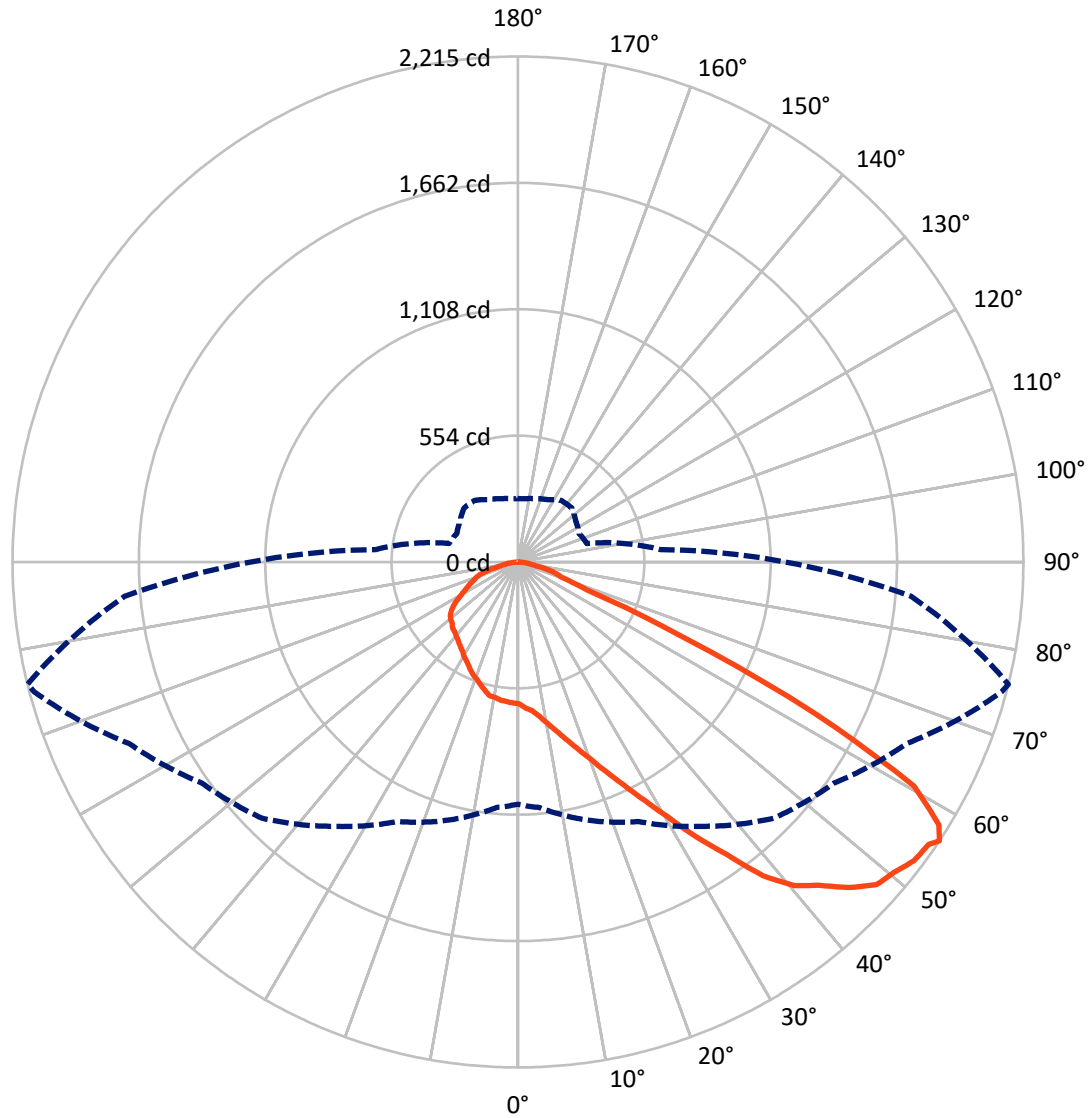
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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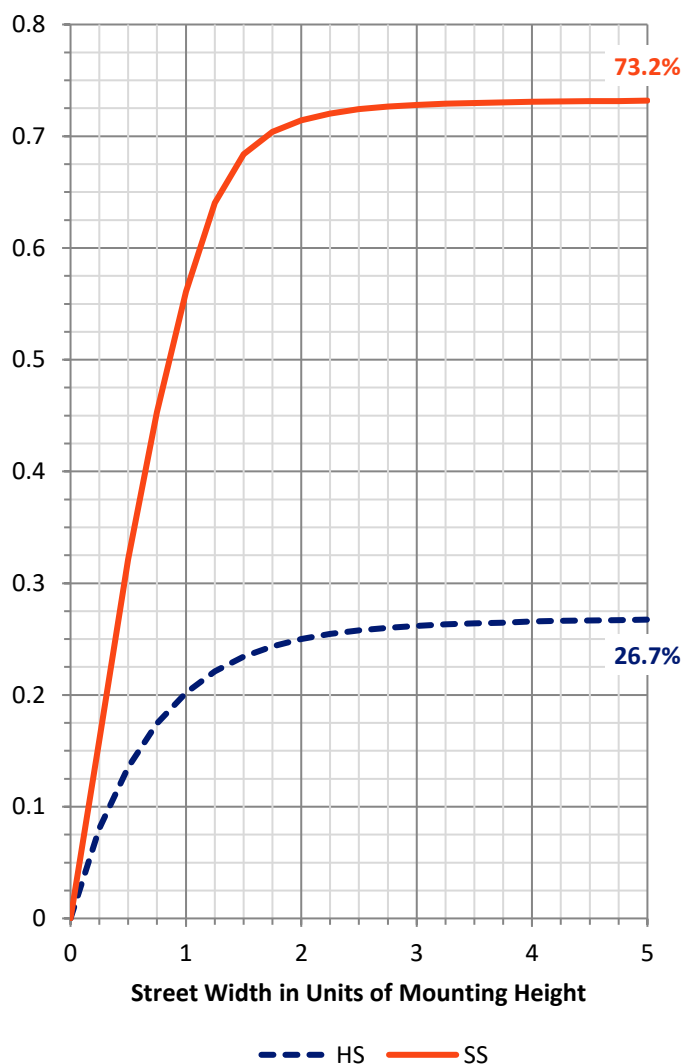
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	872.7	0.0	872.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	2373.3	0.0	2373.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	3246.0	0.0	3246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	1.9
10°-20°	193.5	6.0
20°-30°	338.4	10.4
30°-40°	529.8	16.3
40°-50°	770.7	23.7
50°-60°	847.0	26.1
60°-70°	378.1	11.6
70°-80°	109.2	3.4
80°-90°	17.7	0.5
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°	3246.0	100.0
0°-180°	3246.0	100.0

Coefficient of Utilization

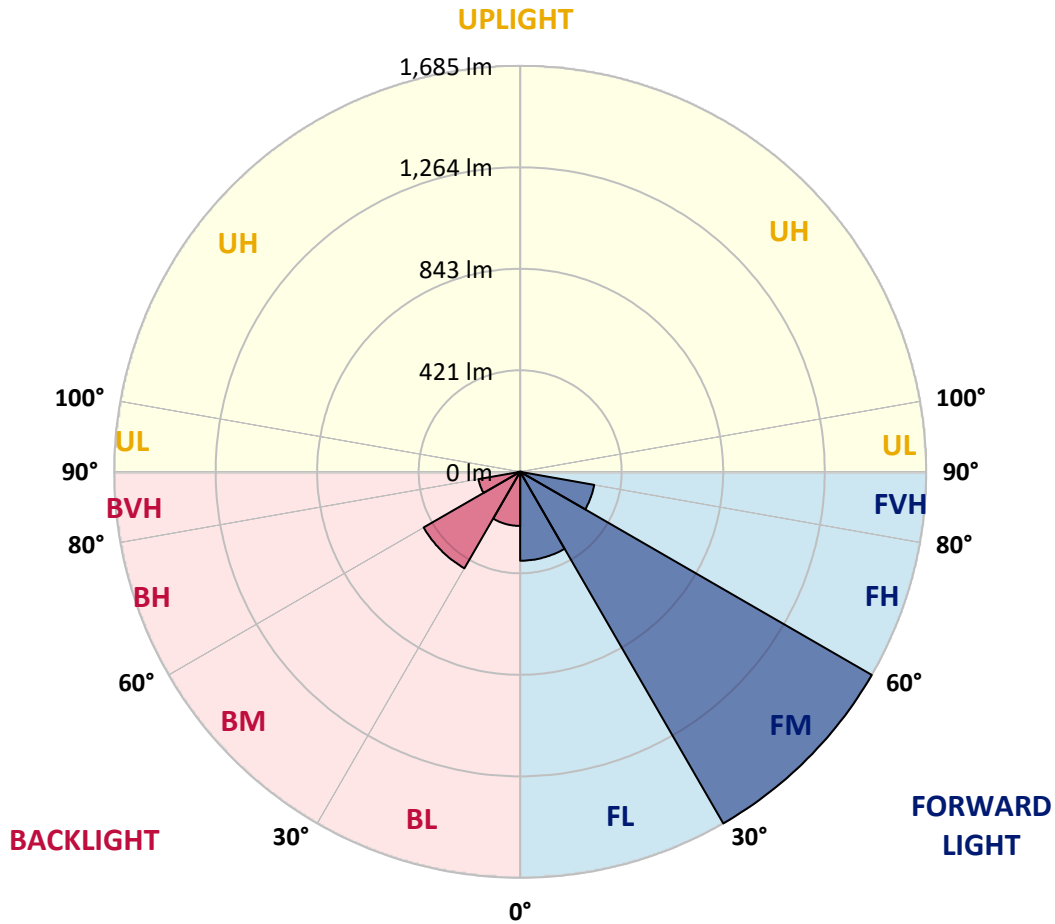


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	368.9	11.4			
FM (30°-60°)	1685.1	51.9			
FH (60°-80°)	311.7	9.6			G0/660
FVH (80°-90°)	7.6	0.2			G0/10
BL (0°-30°)	224.6	6.9	B1/500		
BM (30°-60°)	462.5	14.2	B1/1000		
BH (60°-80°)	175.6	5.4	B1/500		G1/500
BVH (80°-90°)	10.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1
2.5°	684.2	673.3	672.4	669.5	671.2	663.6	655.6	645.1	634.1	640.9	624.9
5°	732.2	717.4	723.3	713.2	714.5	704.4	688.0	675.8	662.3	654.3	643.0
7.5°	749.0	750.3	754.5	752.8	744.4	744.4	733.4	712.0	688.4	683.8	664.8
10°	771.7	772.1	767.5	768.8	780.6	775.1	765.4	756.2	725.9	720.4	686.7
12.5°	779.7	772.1	779.7	786.4	800.3	807.9	805.8	799.1	766.7	762.9	713.7
15°	781.0	776.4	782.7	797.8	810.0	842.0	858.0	853.4	810.4	810.9	743.9
17.5°	775.1	781.4	783.9	797.0	825.2	855.0	901.3	907.6	872.3	866.8	782.2
20°	783.1	778.5	781.8	793.6	831.1	877.8	938.4	980.0	930.4	926.6	821.8
22.5°	813.8	807.5	806.6	814.2	841.2	889.5	977.5	1052.4	1001.1	1003.2	871.0
25°	837.8	841.2	838.2	837.8	854.6	907.2	1029.2	1138.6	1097.0	1084.8	929.1
27.5°	879.0	887.0	881.1	889.1	885.3	933.7	1066.3	1234.2	1200.5	1184.1	981.7
30°	936.2	940.5	935.0	935.0	923.6	970.8	1099.9	1333.9	1320.0	1297.7	1043.5
32.5°	1011.6	1017.9	1006.9	1000.6	998.9	1025.9	1160.5	1432.4	1455.9	1437.0	1125.6
35°	1111.3	1107.5	1094.5	1088.6	1065.9	1110.5	1250.6	1545.5	1607.4	1573.7	1224.9
37.5°	1199.2	1193.3	1192.5	1159.7	1165.2	1201.8	1327.2	1631.4	1754.3	1744.6	1329.7
40°	1281.3	1286.8	1295.6	1277.1	1268.7	1309.1	1416.4	1697.0	1868.3	1864.5	1410.5
42.5°	1369.2	1364.2	1379.8	1364.2	1351.6	1408.8	1513.1	1742.5	1968.4	1937.3	1495.1
45°	1496.7	1480.7	1486.2	1487.5	1478.2	1499.3	1553.1	1775.3	2038.7	2035.3	1556.9
47.5°	1603.2	1603.6	1594.4	1587.2	1559.0	1580.1	1597.7	1795.9	2119.5	2114.0	1580.9
50°	1642.7	1637.3	1664.2	1679.8	1681.5	1638.5	1632.7	1807.3	2162.0	2138.0	1604.9
52.5°	1500.5	1505.6	1548.1	1640.6	1694.1	1698.7	1673.5	1830.8	2179.3	2174.2	1624.2
55°	1207.7	1232.1	1301.9	1408.8	1535.4	1674.7	1717.6	1855.2	2188.5	2184.3	1710.1
56°	1061.6	1080.6	1171.5	1255.2	1414.3	1587.6	1689.9	1881.3	2195.7	2215.4	1730.3
57.5°	854.6	876.5	941.7	1036.8	1224.5	1421.8	1613.3	1849.4	2167.9	2175.5	1745.0
60°	534.4	536.5	614.8	677.5	809.6	1002.3	1231.2	1609.1	2006.3	1995.4	1567.4
62.5°	350.5	350.9	422.0	473.4	533.6	577.7	724.6	1067.1	1480.3	1461.0	1115.9
65°	246.2	251.6	306.8	375.3	399.7	376.6	372.0	562.6	826.8	799.1	599.6
67.5°	180.1	180.5	229.3	303.0	338.3	286.6	232.7	274.8	327.4	326.5	277.7
70°	119.1	124.1	161.6	226.4	266.8	230.2	190.2	196.5	208.3	208.3	206.6
72.5°	69.4	74.1	98.9	143.5	149.8	143.9	150.6	168.3	175.9	175.5	173.4
75°	39.6	41.7	47.1	59.8	74.5	87.9	110.7	127.5	135.1	139.7	134.2
77.5°	23.1	24.4	27.8	34.1	38.7	47.5	60.2	72.0	82.1	80.8	81.6
80°	12.2	12.2	15.6	20.2	26.9	33.7	40.0	46.7	52.2	53.4	54.7
82.5°	7.2	7.6	10.1	14.7	19.4	24.0	30.7	35.3	40.4	40.8	41.7
85°	3.8	4.2	6.3	9.7	13.0	14.7	15.1	14.3	15.6	14.7	16.8
87.5°	1.3	1.3	2.1	1.7	1.7	2.1	2.5	2.5	3.4	3.4	3.4
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°	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1
2.5°	624.4	624.4	617.3	603.8	601.7	596.3	591.2	590.8	587.0	583.6	581.9
5°	636.2	623.2	612.7	600.5	586.2	579.4	571.8	563.4	560.1	563.4	563.0
7.5°	649.7	638.8	607.2	584.5	568.1	561.3	552.9	544.1	544.9	544.9	539.0
10°	662.7	648.0	597.5	568.5	544.5	539.4	534.8	538.2	542.4	543.2	539.4
12.5°	684.6	651.4	592.9	552.5	537.3	526.4	529.3	538.6	547.4	544.9	547.9
15°	701.0	654.3	571.8	536.1	517.1	522.2	532.7	539.0	553.8	552.1	555.0
17.5°	717.0	656.0	551.2	514.2	506.2	520.1	528.1	546.2	550.8	560.9	564.7
20°	749.8	659.4	530.2	500.7	498.2	514.2	528.1	536.5	546.6	555.4	555.4
22.5°	766.7	657.7	516.3	483.1	491.1	501.2	513.8	528.1	528.1	536.5	536.9
25°	787.7	651.0	494.4	474.6	480.5	490.2	504.5	499.5	504.9	504.9	511.7
27.5°	811.7	636.6	475.5	459.5	471.3	481.8	483.9	480.5	474.2	473.4	470.9
30°	831.1	619.0	461.6	454.4	464.1	470.0	463.3	456.1	445.2	444.4	438.5
32.5°	857.6	597.1	444.4	441.8	452.8	453.2	451.1	440.1	424.2	417.4	410.7
35°	902.2	584.5	431.3	435.1	438.5	437.2	433.4	421.6	405.6	402.7	400.2
37.5°	935.0	575.2	417.8	422.5	425.4	427.1	415.7	402.7	403.1	397.2	395.5
40°	972.0	569.3	406.9	409.0	409.4	414.9	401.0	394.7	397.6	393.9	396.4
42.5°	1019.6	571.0	395.5	393.9	401.9	399.7	393.0	384.6	386.3	374.9	376.6
45°	1044.8	582.4	388.8	381.2	390.1	389.6	380.8	372.8	362.7	340.8	341.7
47.5°	1061.6	585.3	372.8	367.8	377.0	382.5	372.4	353.9	339.6	324.0	320.2
50°	1078.9	590.8	365.2	354.7	358.5	371.6	358.9	341.3	327.4	313.5	315.6
52.5°	1094.0	601.3	350.5	334.9	341.7	356.0	349.3	327.8	312.6	301.3	297.9
55°	1161.4	624.9	325.7	305.5	321.5	339.6	335.8	309.7	293.3	287.4	286.6
56°	1171.9	625.7	312.6	295.4	310.1	334.1	329.5	301.7	287.0	277.7	278.1
57.5°	1173.6	615.6	294.1	286.1	298.8	326.1	320.2	295.4	275.2	266.8	264.3
60°	1032.6	480.5	271.0	265.9	280.7	301.7	299.6	278.1	255.4	245.7	250.4
62.5°	704.0	352.2	252.9	252.1	259.6	280.2	274.8	255.4	236.5	230.2	227.2
65°	409.8	267.2	235.2	231.9	238.2	249.1	252.9	232.7	212.9	208.7	207.4
67.5°	242.0	220.9	212.5	207.0	204.9	211.7	214.6	202.8	183.0	177.2	182.2
70°	202.4	196.5	196.9	187.7	182.6	178.0	175.5	164.9	148.5	141.0	138.9
72.5°	174.6	172.1	170.4	162.0	157.4	146.9	135.9	125.4	113.2	106.9	107.3
75°	133.4	132.5	133.4	129.2	121.2	112.8	102.7	89.2	79.9	72.0	73.6
77.5°	79.5	82.1	83.3	81.6	78.3	70.7	64.4	55.5	46.7	40.4	39.6
80°	54.7	56.8	58.9	56.8	53.4	48.0	41.2	34.5	28.2	24.8	24.0
82.5°	41.7	43.8	45.0	42.9	38.7	32.8	28.2	23.6	18.5	15.1	14.3
85°	15.1	17.3	16.8	20.2	21.9	21.0	18.1	13.9	10.5	7.6	7.2
87.5°	4.2	3.8	4.2	4.2	4.2	3.8	3.4	3.4	3.4	2.1	1.7
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)