

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: P382981

Luminaire Tested: **GLEON-SA3B-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16931.8 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

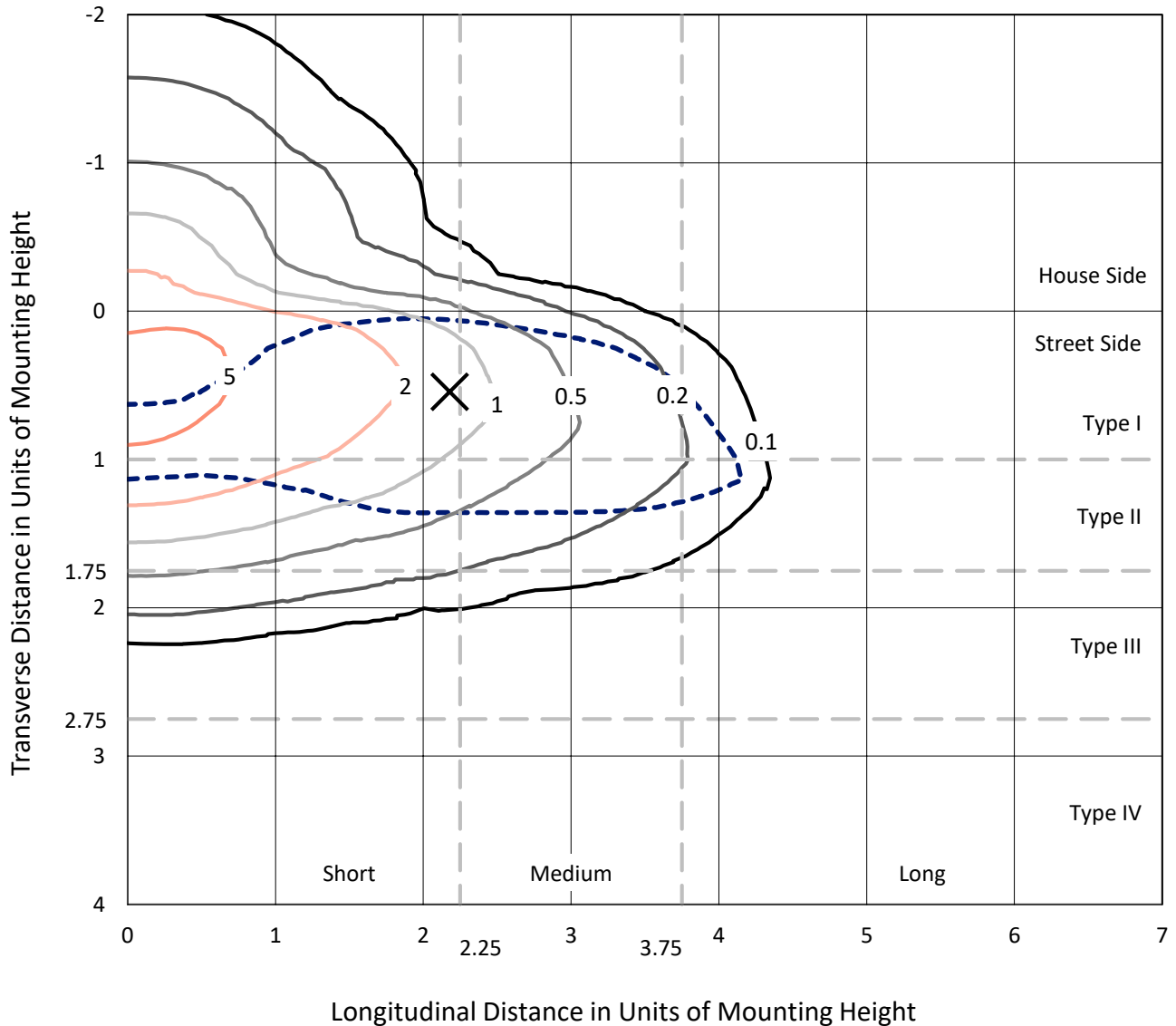
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

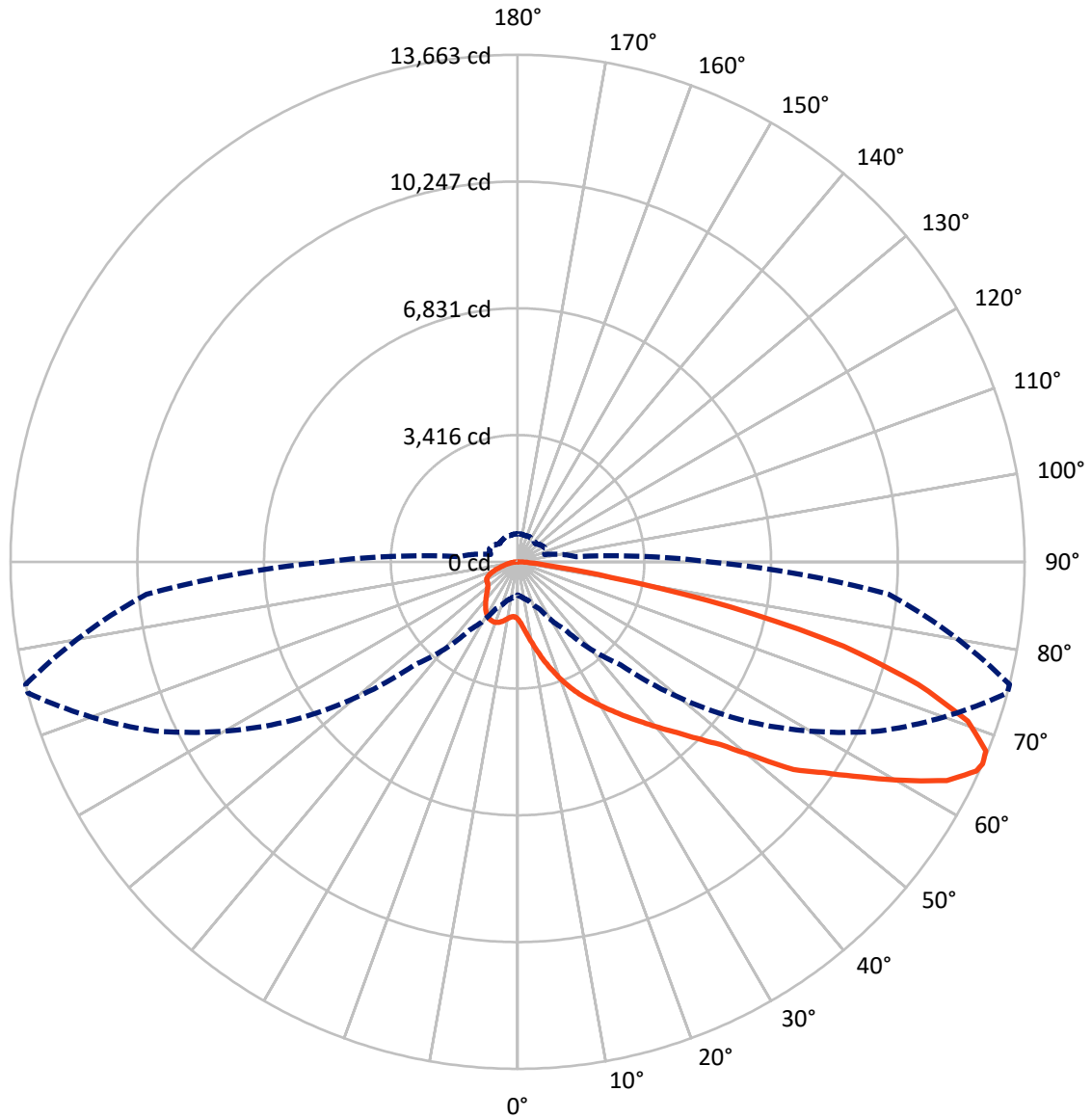
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2849.0	0.0	2849.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	14082.8	0.0	14082.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	16931.8	0.0	16931.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.0	1.1
10°-20°	738.4	4.4
20°-30°	1434.9	8.5
30°-40°	2342.0	13.8
40°-50°	3199.8	18.9
50°-60°	3727.1	22.0
60°-70°	3341.4	19.7
70°-80°	1688.6	10.0
80°-90°	272.7	1.6
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°	16931.8	100.0
0°-180°	16931.8	100.0

Coefficient of Utilization

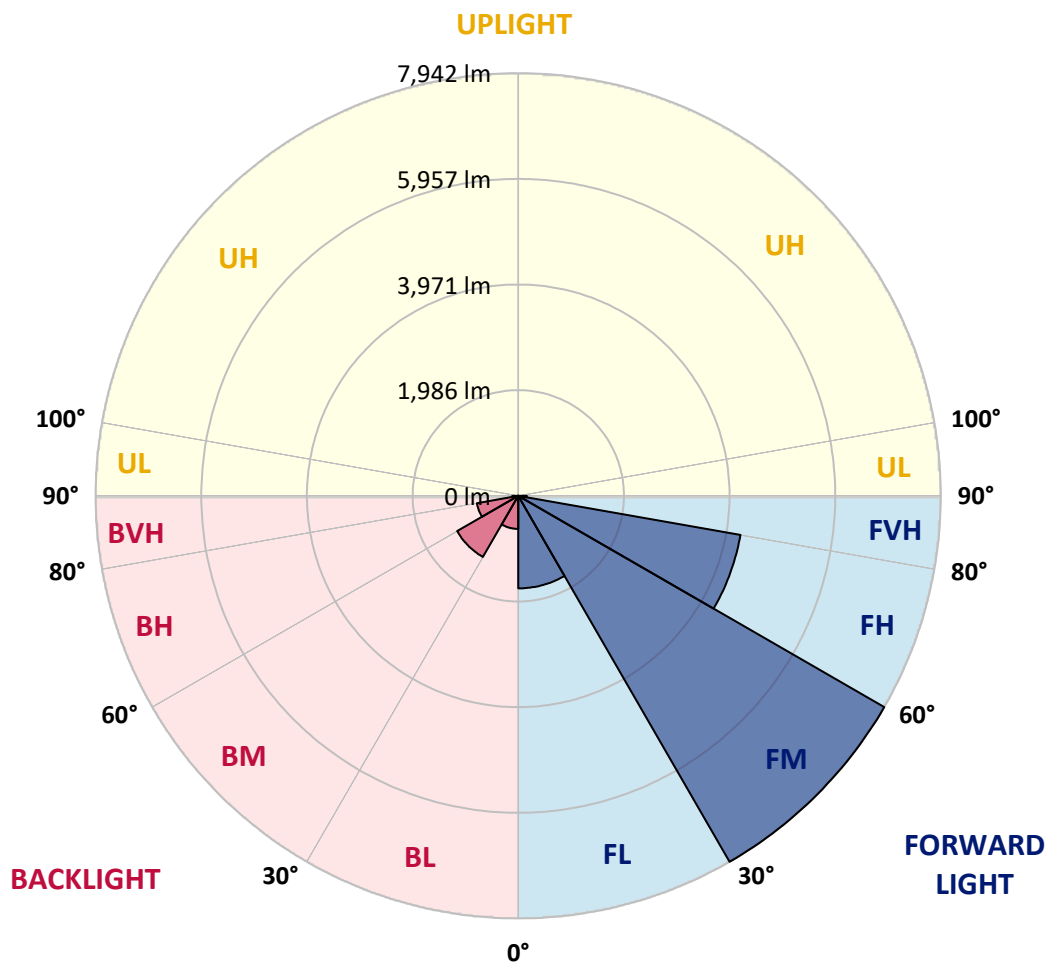


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1738.9	10.3			
FM (30°-60°)	7942.2	46.9			
FH (60°-80°)	4240.7	25.0			G2/5000
FVH (80°-90°)	161.0	1.0			G2/225
BL (0°-30°)	621.4	3.7	B2/1000		
BM (30°-60°)	1326.7	7.8	B2/2500		
BH (60°-80°)	789.3	4.7	B2/1000		G2/1000
BVH (80°-90°)	111.6	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3
2.5°	2052.7	2021.6	2018.8	1973.4	1963.0	1876.2	1812.4	1745.7	1669.8	1654.9	1595.1
5°	2636.7	2633.8	2594.2	2520.0	2461.9	2313.6	2167.1	2011.9	1841.7	1814.1	1679.6
7.5°	3162.0	3157.5	3127.0	3047.1	2963.2	2780.9	2571.7	2333.7	2057.9	2017.0	1794.0
10°	3561.0	3559.3	3548.9	3490.3	3419.0	3244.3	3013.2	2688.4	2309.0	2253.3	1937.2
12.5°	3869.1	3872.5	3879.4	3858.7	3824.8	3676.0	3439.1	3064.3	2576.9	2521.7	2096.4
15°	4077.8	4088.1	4123.8	4153.0	4170.9	4079.4	3850.1	3448.9	2877.0	2810.9	2272.8
17.5°	4182.9	4194.5	4256.0	4344.5	4426.1	4416.9	4234.6	3815.6	3164.9	3101.1	2462.5
20°	4273.8	4282.4	4351.4	4457.7	4601.9	4665.7	4563.5	4168.6	3480.5	3404.6	2663.7
22.5°	4537.0	4547.9	4568.7	4629.0	4756.6	4873.9	4824.4	4502.5	3769.6	3699.0	2854.5
25°	5045.2	5058.4	5013.6	4962.4	4986.6	5068.2	5077.3	4807.2	4062.8	3982.9	3059.8
27.5°	5657.4	5676.3	5599.9	5468.2	5353.2	5321.7	5310.8	5056.6	4342.8	4250.2	3262.7
30°	6256.8	6289.6	6190.2	6019.5	5808.5	5660.2	5550.4	5301.0	4618.6	4530.1	3454.1
32.5°	6842.6	6829.4	6685.2	6518.4	6271.3	6085.6	5820.0	5563.1	4929.0	4827.3	3644.3
35°	7243.8	7248.5	7114.5	6916.7	6681.1	6538.5	6181.0	5845.9	5245.7	5152.1	3860.4
37.5°	7585.3	7564.0	7412.2	7227.8	7024.8	6963.9	6603.5	6157.4	5588.9	5486.6	4090.4
40°	7699.1	7674.4	7575.0	7442.1	7279.5	7274.3	7069.7	6510.4	5976.9	5875.7	4349.7
42.5°	7630.1	7598.5	7557.6	7521.5	7471.5	7494.5	7507.7	6924.2	6403.5	6290.2	4649.7
45°	7375.4	7327.7	7356.5	7435.2	7543.9	7673.8	7903.2	7382.3	6881.2	6786.3	5002.0
47.5°	6984.0	6940.9	7030.6	7199.0	7494.5	7823.2	8277.4	7888.2	7451.4	7357.1	5503.9
50°	6433.4	6446.0	6574.2	6880.6	7327.2	7892.3	8738.4	8557.8	8280.2	8192.3	6188.5
52.5°	5529.8	5532.0	5893.1	6396.0	7030.6	7856.6	8994.2	9413.8	9412.1	9305.7	6840.4
55°	4690.5	4741.7	5027.4	5695.9	6550.0	7714.1	9172.9	9830.0	10155.3	10030.5	7447.9
57.5°	3870.9	3900.7	4171.5	4842.8	5864.3	7334.1	9356.3	10329.5	11011.7	10933.0	8203.2
60°	2938.5	2984.5	3264.4	3884.6	4987.1	6659.8	9373.5	10850.9	12035.5	11956.2	9046.4
62.5°	1907.3	1986.5	2248.7	2829.9	3926.0	5690.1	8973.5	11191.7	13005.8	12977.7	9794.9
65°	1096.2	1156.0	1338.2	1786.5	2708.6	4472.6	8022.1	11060.6	13603.0	13586.9	10074.8
66°	895.6	932.9	1072.6	1396.2	2234.9	3927.7	7469.1	10784.2	13662.3	13662.8	10042.6
67.5°	716.3	732.8	795.5	999.6	1649.1	3113.2	6481.1	10174.3	13588.7	13608.8	9835.1
70°	592.7	601.2	620.8	670.2	900.2	1877.3	4600.3	8589.5	12850.0	12865.5	9025.2
72.5°	531.7	536.9	544.4	551.3	635.1	1049.0	2809.7	6871.4	11266.4	11286.5	7791.1
75°	481.7	484.6	483.4	484.0	532.8	668.5	1452.0	5130.2	9109.7	9069.5	5968.3
77.5°	423.1	425.9	420.2	421.3	471.4	513.8	722.5	3591.5	6147.7	5863.7	3362.7
80°	357.5	359.9	357.5	361.5	410.4	388.0	420.2	2020.4	2718.3	2571.2	1195.6
82.5°	270.1	279.9	286.8	302.9	338.0	275.9	281.0	786.9	827.8	788.1	366.8
85°	118.4	144.3	216.1	231.7	254.0	165.5	184.5	320.7	336.8	326.5	133.4
87.5°	31.0	33.9	106.9	134.5	140.8	74.7	95.9	146.0	154.1	146.0	44.2
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°	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3
2.5°	1563.5	1535.4	1484.8	1439.9	1406.0	1383.0	1360.1	1348.5	1341.6	1334.7	1335.8
5°	1613.5	1556.6	1469.8	1408.3	1373.8	1352.0	1340.5	1335.8	1333.0	1326.1	1326.1
7.5°	1688.8	1608.3	1488.8	1425.5	1398.5	1381.9	1375.0	1372.6	1369.2	1361.2	1362.3
10°	1783.6	1671.0	1528.5	1466.9	1442.2	1423.8	1414.1	1410.6	1404.3	1395.1	1396.2
12.5°	1895.1	1748.6	1580.7	1516.4	1486.5	1461.8	1445.7	1435.9	1425.0	1412.9	1413.4
15°	2017.0	1833.1	1637.1	1560.6	1519.8	1485.4	1459.5	1442.8	1425.5	1410.6	1410.0
17.5°	2140.6	1914.7	1680.2	1584.7	1529.6	1484.1	1449.1	1423.2	1402.0	1383.6	1381.9
20°	2274.0	1988.3	1704.4	1582.5	1511.2	1457.1	1410.6	1378.4	1354.8	1336.5	1333.6
22.5°	2409.6	2057.2	1708.4	1558.9	1470.4	1404.3	1355.4	1319.8	1295.6	1276.7	1269.8
25°	2533.8	2110.7	1691.7	1513.5	1413.4	1342.2	1294.5	1258.2	1238.8	1216.3	1209.4
27.5°	2647.0	2148.1	1658.3	1455.4	1349.6	1279.6	1234.7	1203.7	1182.4	1165.2	1159.4
30°	2748.8	2168.2	1603.8	1386.4	1284.1	1220.3	1182.4	1161.2	1142.7	1120.9	1116.8
32.5°	2845.3	2168.2	1533.6	1311.2	1219.2	1168.1	1145.6	1132.4	1111.7	1090.5	1084.7
35°	2941.9	2154.9	1450.8	1232.4	1159.4	1130.6	1129.5	1114.0	1082.4	1053.7	1046.1
37.5°	3043.6	2127.9	1357.7	1158.8	1110.6	1114.0	1123.7	1089.3	1044.5	1003.6	992.8
40°	3158.6	2090.6	1261.1	1095.0	1069.7	1106.5	1108.3	1053.7	966.3	928.9	919.2
42.5°	3293.7	2053.2	1171.5	1038.7	1037.6	1084.1	1078.9	976.6	924.3	905.4	900.2
45°	3471.3	2032.0	1086.4	985.2	1012.2	1047.9	1028.9	934.1	912.3	901.3	896.7
47.5°	3751.2	2042.9	1008.2	942.7	987.0	1011.7	935.8	916.8	901.3	888.1	883.5
50°	4101.9	2036.5	945.0	913.4	958.2	973.7	893.8	894.4	886.4	871.5	864.6
52.5°	4365.7	1987.2	904.2	896.7	932.9	906.5	867.4	872.6	868.6	846.7	839.2
55°	4620.4	1944.6	883.5	890.4	914.5	822.6	836.3	849.0	845.0	823.7	820.2
57.5°	4937.1	1936.6	870.8	892.1	899.0	780.6	806.4	823.1	820.2	811.1	809.3
60°	5325.1	1938.8	859.4	895.0	881.8	749.5	778.3	799.5	801.3	799.5	798.4
62.5°	5538.3	1876.2	830.6	886.9	851.3	722.5	749.0	780.0	780.6	784.1	783.4
65°	5357.3	1688.8	777.2	858.8	800.1	700.2	723.7	757.6	749.0	764.5	764.5
66°	5181.4	1580.7	750.7	840.3	778.3	691.5	715.6	746.1	735.2	756.4	756.4
67.5°	4822.2	1398.5	703.0	801.3	747.3	679.5	706.5	727.2	712.2	743.8	741.5
70°	4165.7	1081.8	607.0	712.7	696.1	661.6	693.8	689.2	667.4	715.6	706.5
72.5°	3512.1	822.0	487.5	596.7	618.5	639.2	676.0	640.9	613.3	647.2	627.1
75°	2725.2	617.9	385.1	463.9	522.5	604.1	654.7	585.2	545.5	542.1	531.2
77.5°	1473.2	424.2	305.3	354.1	415.0	560.4	640.3	525.4	465.6	451.8	443.1
80°	583.4	275.9	221.9	268.5	290.3	497.3	605.9	455.8	384.0	370.2	357.0
82.5°	240.8	163.2	143.1	179.9	189.1	425.3	543.7	373.6	296.6	410.4	435.7
85°	103.5	89.7	85.1	93.2	106.9	298.4	432.8	285.1	320.2	285.7	227.0
87.5°	31.0	37.9	36.2	35.7	39.1	71.3	230.5	158.6	235.1	89.1	66.7
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)