

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: P299102

Luminaire Tested: **GLNA-AF-02-LED-E1-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-02-LED-E1-T3-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11741.8 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

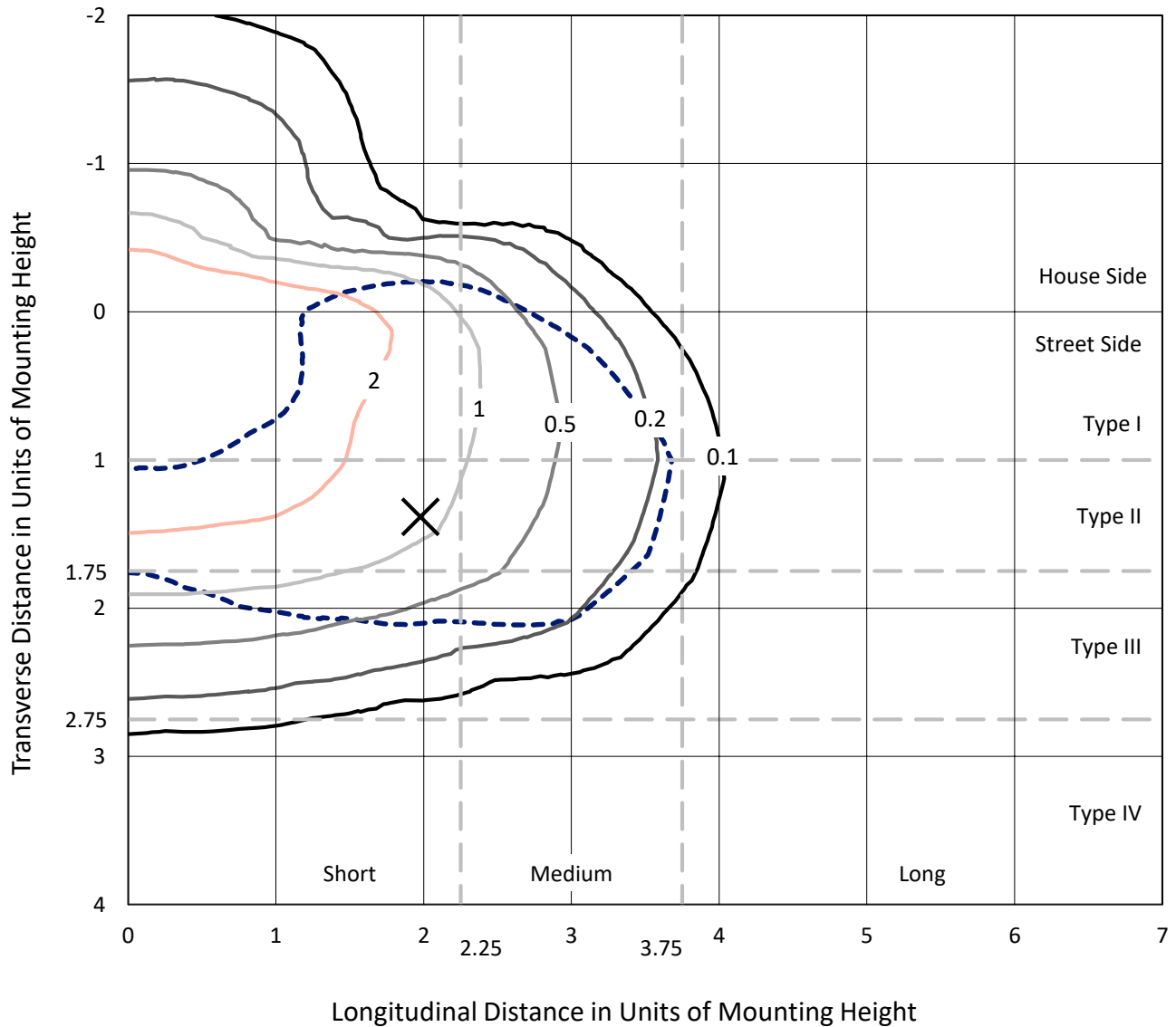
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

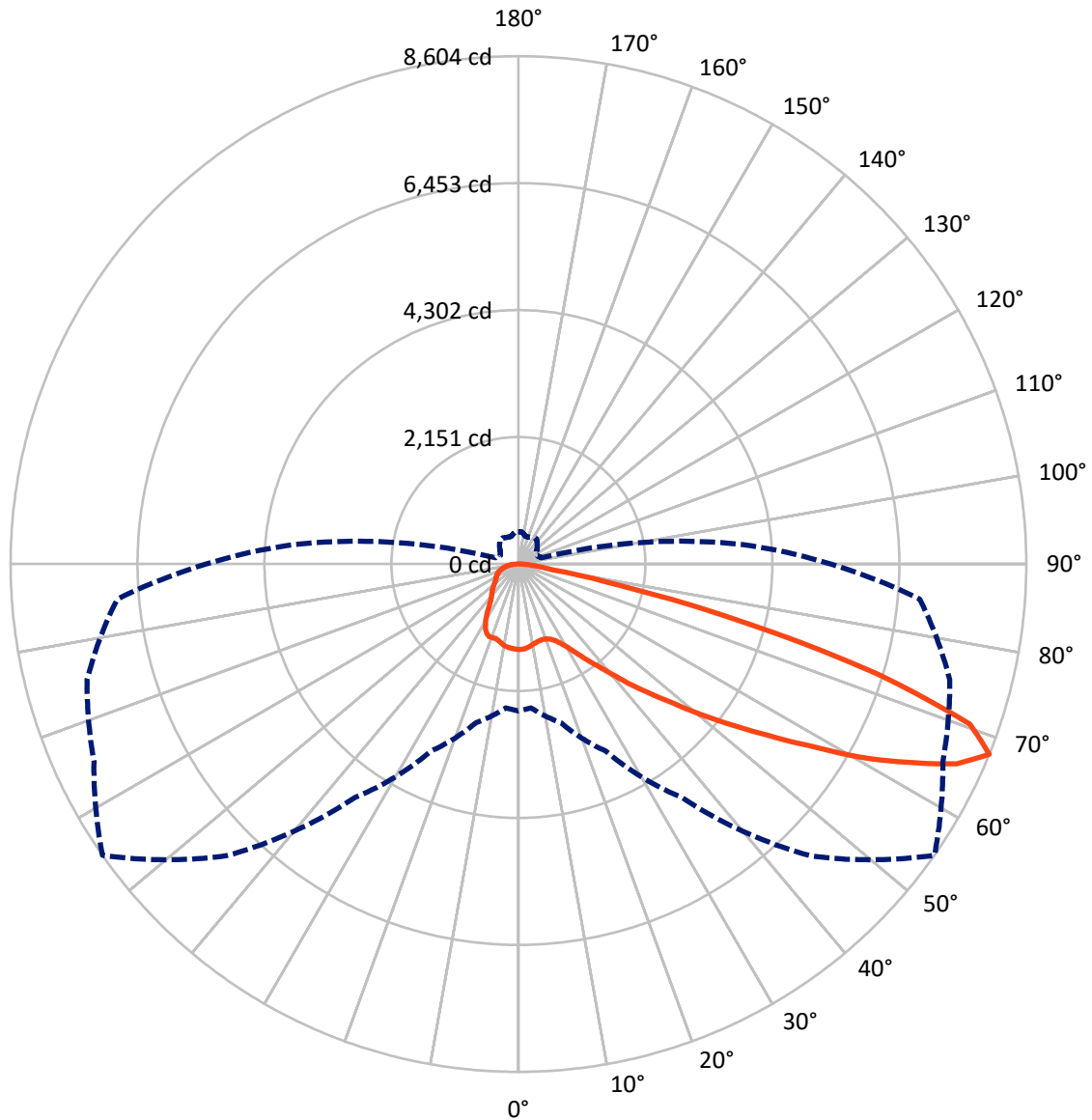
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2536.5	0.0	2536.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	9205.3	0.0	9205.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	11741.8	0.0	11741.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	1.2
10°-20°	382.8	3.3
20°-30°	641.2	5.5
30°-40°	1054.3	9.0
40°-50°	1774.8	15.1
50°-60°	2793.4	23.8
60°-70°	3333.6	28.4
70°-80°	1431.5	12.2
80°-90°	195.2	1.7
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°	11741.8	100.0
0°-180°	11741.8	100.0



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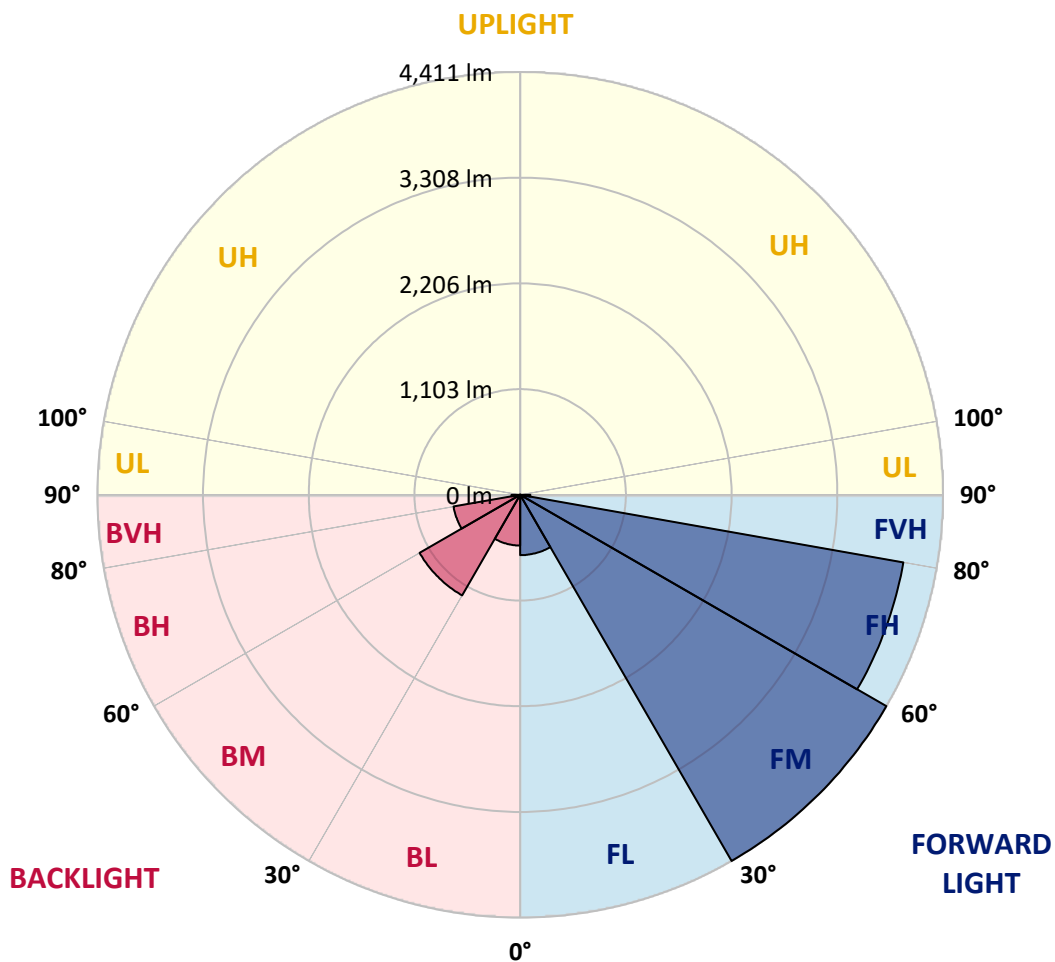
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	629.4	5.4			
FM	(30°-60°)	4411.1	37.6			
FH	(60°-80°)	4059.2	34.6			G2/5000
FVH	(80°-90°)	105.7	0.9			G2/225
BL	(0°-30°)	529.7	4.5	B2/1000		
BM	(30°-60°)	1211.4	10.3	B2/2500		
BH	(60°-80°)	705.9	6.0	B2/1000		G2/1000
BVH	(80°-90°)	89.5	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9
2.5°	1435.4	1436.0	1437.1	1441.7	1445.6	1444.5	1445.1	1442.8	1442.2	1438.8	1442.2
5°	1417.3	1419.0	1419.5	1426.9	1431.4	1432.6	1430.9	1428.0	1424.6	1421.2	1422.9
7.5°	1375.9	1380.4	1381.0	1391.2	1398.6	1408.2	1408.8	1409.3	1407.6	1405.4	1408.8
10°	1349.8	1350.9	1350.3	1357.7	1363.4	1374.2	1380.4	1391.2	1395.7	1396.8	1399.1
12.5°	1348.1	1346.9	1345.2	1345.2	1343.5	1348.1	1359.4	1374.7	1385.5	1388.9	1391.7
15°	1366.2	1365.7	1360.0	1351.5	1340.7	1337.3	1346.9	1364.0	1378.1	1385.5	1388.3
17.5°	1407.1	1403.7	1394.6	1375.3	1352.0	1343.0	1344.1	1358.3	1374.7	1384.4	1387.2
20°	1481.9	1481.9	1462.6	1426.3	1384.9	1363.4	1353.2	1361.7	1377.6	1390.6	1394.6
22.5°	1611.2	1612.4	1580.0	1520.5	1450.7	1404.8	1379.3	1377.6	1396.3	1411.0	1415.6
25°	1794.4	1789.9	1744.5	1659.4	1553.4	1477.4	1433.1	1422.9	1438.8	1455.3	1460.9
27.5°	2007.7	1991.2	1937.3	1834.7	1697.4	1586.3	1518.2	1501.8	1517.1	1535.8	1541.5
30°	2218.6	2201.6	2137.5	2025.2	1872.7	1732.0	1634.5	1607.8	1629.4	1656.0	1659.4
32.5°	2429.6	2429.6	2358.1	2227.1	2061.0	1906.1	1789.3	1757.5	1793.3	1825.6	1833.0
35°	2682.0	2683.1	2613.9	2456.3	2277.6	2113.7	1985.0	1961.7	2015.6	2038.3	2055.9
37.5°	2992.2	2998.4	2909.4	2718.8	2523.2	2350.8	2197.6	2165.9	2219.8	2281.6	2338.3
40°	3327.4	3335.3	3237.2	3002.4	2806.7	2626.4	2460.8	2403.5	2493.1	2611.1	2684.2
42.5°	3647.2	3688.1	3593.4	3351.8	3141.3	2954.8	2786.9	2703.5	2815.8	2993.9	3057.4
45°	4109.4	4138.9	3973.9	3755.0	3557.1	3348.4	3126.0	3038.1	3195.2	3419.8	3432.9
47.5°	4417.4	4395.3	4311.3	4175.2	4049.9	3854.8	3520.2	3423.8	3632.5	3896.8	3823.6
50°	4581.3	4588.1	4576.8	4584.7	4589.2	4466.7	4003.4	3871.2	4120.2	4439.5	4271.1
52.5°	4734.4	4689.1	4726.5	4912.5	5137.1	5091.7	4529.1	4391.3	4643.1	5041.8	4744.1
55°	4731.0	4661.8	4783.8	5112.1	5599.3	5651.5	5119.5	4960.7	5196.1	5687.8	5245.4
57.5°	4563.7	4567.1	4754.8	5184.7	5921.4	6177.8	5804.6	5566.4	5782.5	6342.2	5703.1
60°	4333.5	4364.7	4635.2	5172.8	6179.5	6609.4	6645.1	6219.2	6357.0	6937.2	6081.9
62.5°	3962.0	3994.9	4368.1	5049.2	6140.3	7025.1	7405.1	6959.9	6957.6	7297.9	6193.1
65°	3376.1	3366.5	3758.4	4587.0	5812.0	7332.5	8159.9	7600.1	7410.2	7303.5	5969.6
67.5°	2489.7	2446.6	2782.9	3493.5	4830.8	6988.2	8604.0	7933.6	7564.4	6823.2	5286.8
70°	1291.9	1248.8	1521.1	2040.0	3177.1	5454.1	8112.3	7761.2	7223.6	5719.5	4141.8
72.5°	552.4	545.0	655.6	894.9	1536.9	3145.9	6361.0	6717.7	6198.2	4261.4	2847.6
75°	371.5	369.2	410.6	487.7	691.3	1276.6	3980.7	4768.5	4534.8	2642.3	1601.6
77.5°	291.5	288.7	313.1	350.5	448.0	503.6	1766.6	2560.0	2369.5	1150.1	701.0
80°	228.0	225.7	241.0	261.4	322.1	317.6	581.3	1018.6	788.3	440.7	340.8
82.5°	179.8	179.8	192.3	192.8	228.6	216.6	303.4	448.6	393.6	256.9	208.7
85°	164.5	164.5	177.5	144.1	149.2	136.7	188.3	266.0	249.5	105.5	90.7
87.5°	82.8	80.5	149.2	127.6	81.1	72.6	91.9	128.7	138.4	58.4	45.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9
2.5°	1441.1	1440.5	1441.7	1442.2	1446.8	1453.0	1455.8	1459.8	1462.1	1460.9
5°	1424.1	1425.2	1429.7	1433.1	1441.1	1451.3	1457.0	1461.5	1465.5	1463.8
7.5°	1409.9	1412.7	1419.5	1422.4	1426.9	1429.7	1429.2	1430.9	1434.3	1430.3
10°	1402.0	1405.4	1410.5	1406.5	1395.7	1380.4	1366.2	1358.9	1361.1	1358.3
12.5°	1394.0	1398.6	1394.6	1375.9	1345.8	1326.0	1315.2	1316.3	1321.4	1322.6
15°	1389.5	1391.2	1374.2	1339.0	1308.4	1305.5	1311.2	1310.1	1310.6	1310.6
17.5°	1389.5	1384.9	1353.2	1318.0	1305.0	1299.9	1282.3	1260.2	1250.5	1247.1
20°	1396.8	1384.9	1346.4	1323.1	1294.8	1251.1	1204.6	1163.8	1145.6	1140.5
22.5°	1419.0	1398.6	1365.7	1325.4	1244.9	1171.7	1098.0	1049.2	1016.3	1010.6
25°	1463.8	1441.1	1403.7	1295.3	1165.5	1061.1	977.2	922.7	889.8	885.3
27.5°	1542.0	1527.3	1424.1	1229.0	1060.0	948.2	870.5	828.6	804.2	802.5
30°	1660.0	1652.6	1413.9	1130.9	930.1	838.8	801.4	777.0	758.8	758.3
32.5°	1848.3	1788.7	1380.4	1011.2	811.6	761.1	745.8	731.0	716.9	716.9
35°	2090.5	1898.8	1316.9	883.0	739.5	718.0	698.7	675.5	656.7	655.6
37.5°	2375.2	1966.8	1202.9	779.8	705.5	689.1	660.7	626.1	593.2	587.5
40°	2662.7	1987.2	1042.4	716.3	684.0	660.1	625.5	584.7	553.0	551.3
42.5°	2926.4	1948.1	872.3	672.6	662.4	630.7	594.4	558.1	533.1	532.5
45°	3147.6	1846.6	729.3	631.2	639.7	604.0	571.7	542.2	522.9	518.9
47.5°	3355.7	1703.1	629.0	587.5	617.0	589.3	562.0	534.2	515.5	512.7
50°	3597.3	1548.3	558.6	545.0	597.2	584.1	570.0	541.0	509.9	506.4
52.5°	3890.0	1414.4	503.6	507.6	581.9	591.0	590.4	560.3	505.9	501.3
55°	4216.6	1265.8	462.2	477.0	575.6	603.4	595.5	578.5	509.3	502.5
57.5°	4538.2	1092.3	433.3	453.7	566.6	602.3	571.1	546.7	517.2	507.6
60°	4779.2	859.2	411.2	433.3	546.7	583.6	544.4	512.1	515.5	508.2
62.5°	4795.1	664.1	384.5	415.7	516.7	564.9	526.9	496.8	522.9	516.1
65°	4513.2	501.9	359.0	394.7	484.3	553.0	509.9	488.3	538.2	530.8
67.5°	3799.8	403.8	337.4	373.2	452.0	528.0	494.5	480.4	551.8	538.8
70°	2743.2	344.2	316.5	347.1	423.1	499.6	480.9	466.2	515.0	494.5
72.5°	1688.9	298.3	292.6	312.5	401.0	470.2	460.5	439.5	463.9	447.5
75°	843.3	258.6	266.0	278.5	369.8	436.7	426.5	405.5	408.9	405.5
77.5°	403.8	221.2	234.8	244.4	329.5	398.7	387.9	366.4	362.4	363.0
80°	255.8	184.9	197.9	204.7	294.3	354.5	343.7	322.1	367.5	340.8
82.5°	159.9	150.3	153.7	166.2	256.3	308.5	294.3	275.1	331.2	262.0
85°	88.5	104.9	109.5	120.2	197.4	258.0	243.9	219.5	196.8	193.4
87.5°	52.7	62.4	64.1	72.0	132.7	186.6	165.0	156.5	129.9	129.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)