

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: P302769

Luminaire Tested: **GLNA-AF-02-LED-E1-T4W-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)
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-T4W-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11657.9 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

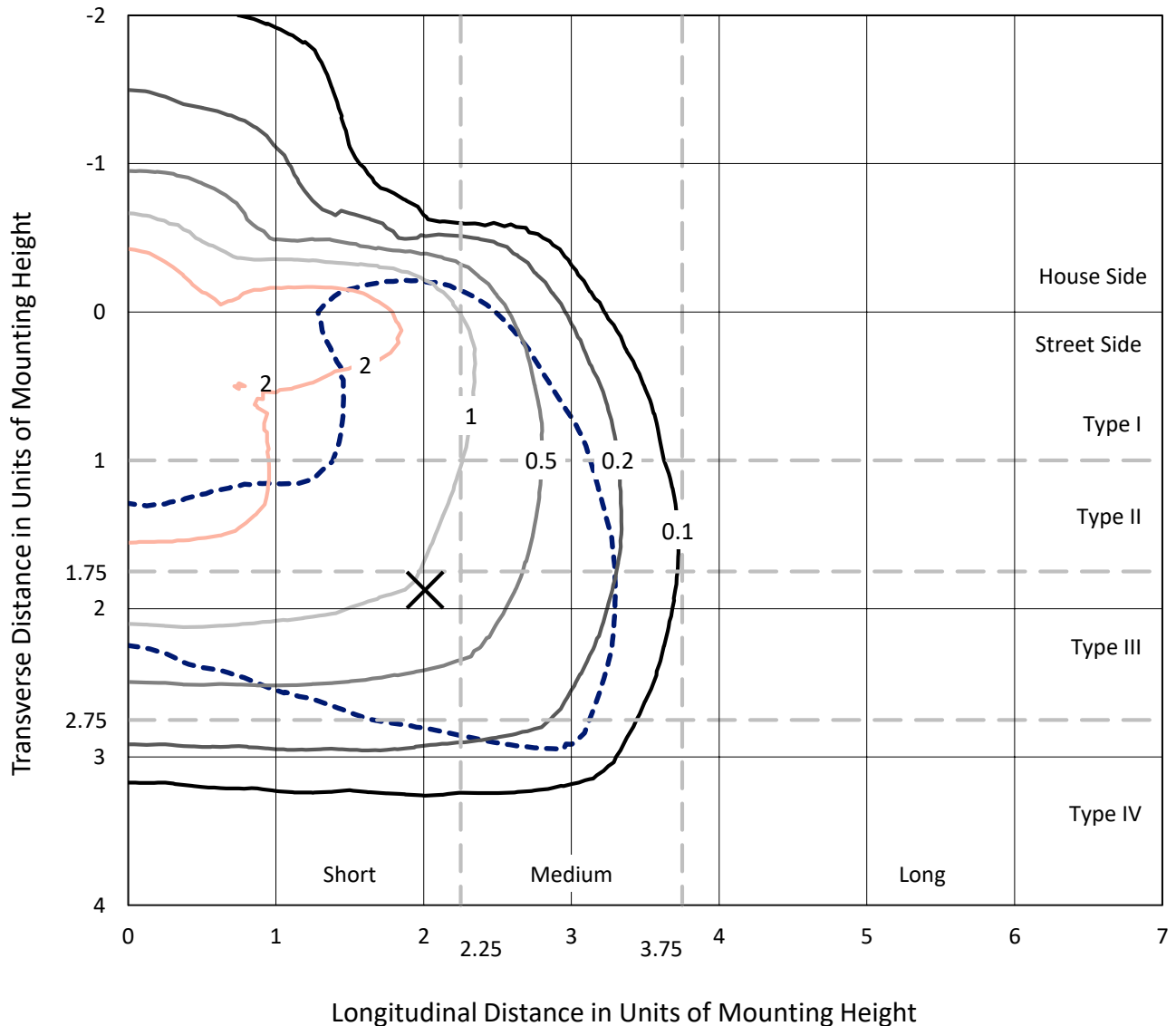
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

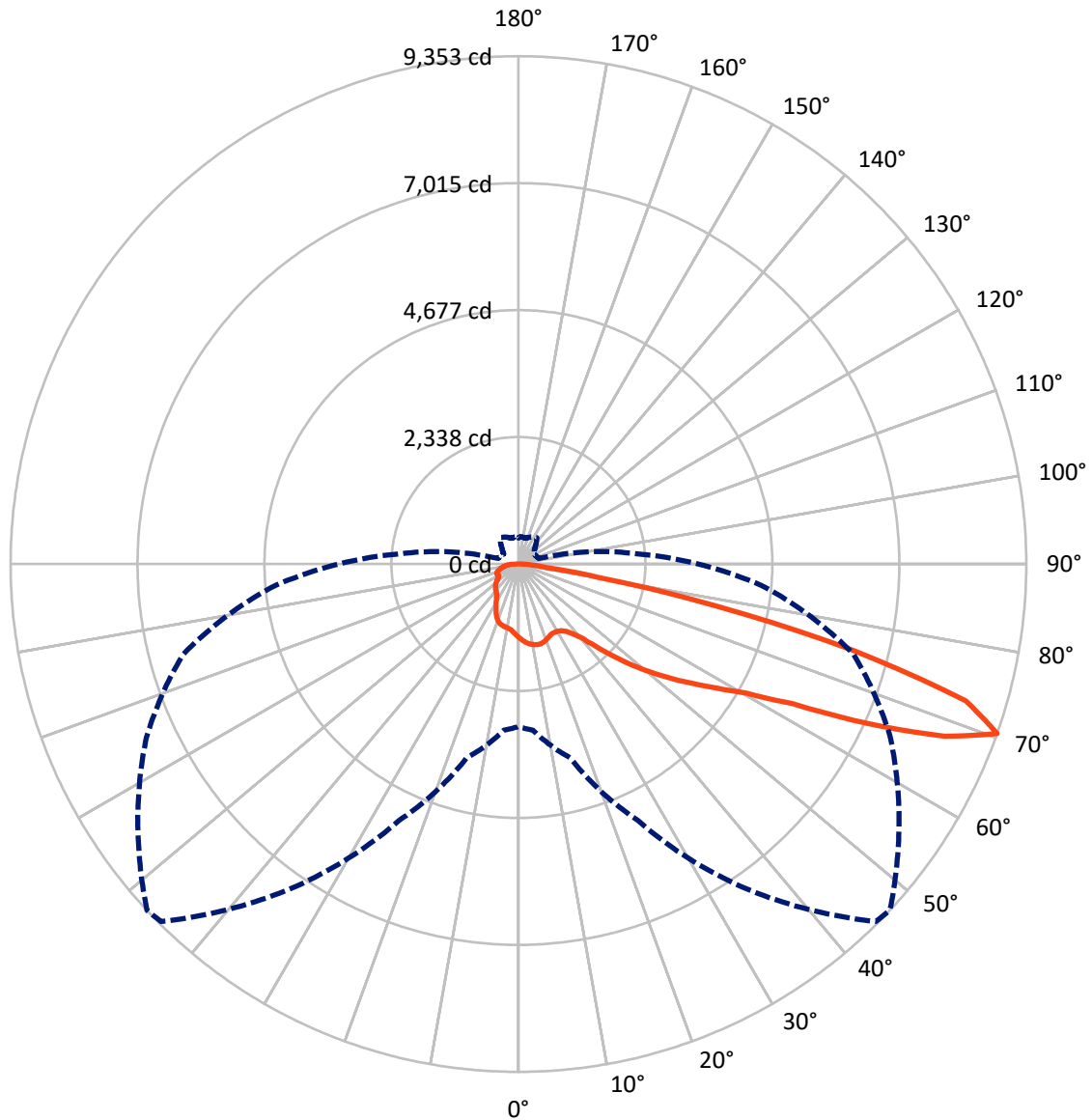
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2432.1	0.0	2432.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	9225.8	0.0	9225.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	11657.9	0.0	11657.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	1.1
10°-20°	380.2	3.3
20°-30°	561.5	4.8
30°-40°	816.1	7.0
40°-50°	1468.8	12.6
50°-60°	2544.5	21.8
60°-70°	3631.7	31.2
70°-80°	1864.3	16.0
80°-90°	261.0	2.2
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°	11657.9	100.0
0°-180°	11657.9	100.0



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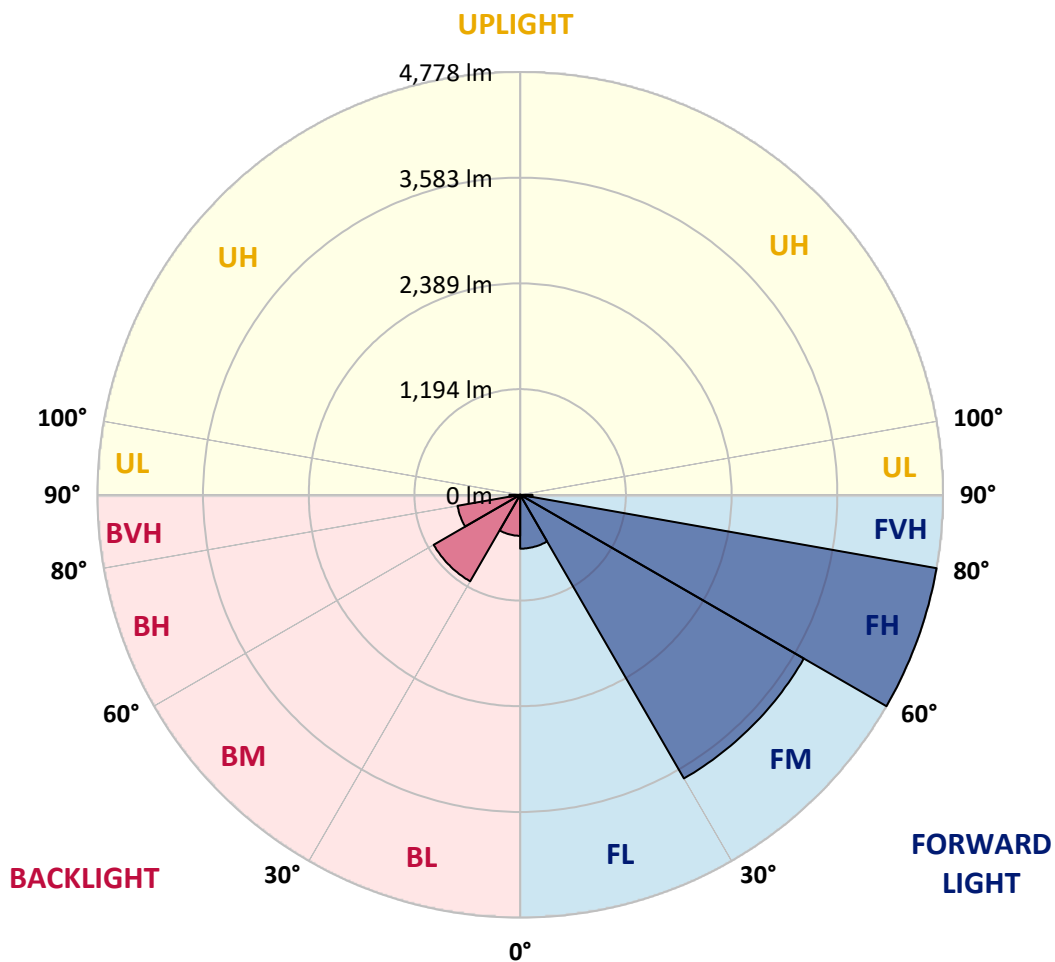
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	608.3	5.2			
FM (30°-60°)	3700.5	31.7			
FH (60°-80°)	4777.7	41.0			G2/5000
FVH (80°-90°)	139.3	1.2			G2/225
BL (0°-30°)	463.1	4.0	B1/500		
BM (30°-60°)	1128.9	9.7	B2/2500		
BH (60°-80°)	718.4	6.2	B2/1000		G2/1000
BVH (80°-90°)	121.7	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6
2.5°	1432.1	1429.3	1428.2	1425.9	1423.1	1408.8	1406.0	1395.8	1381.7	1366.8	1351.5
5°	1526.3	1525.8	1519.3	1508.0	1490.0	1458.7	1451.3	1426.5	1393.0	1360.6	1328.3
7.5°	1609.0	1603.9	1592.1	1569.3	1537.6	1495.0	1484.9	1450.2	1404.3	1360.0	1316.3
10°	1669.7	1666.8	1640.8	1609.6	1568.1	1521.0	1509.2	1470.6	1420.1	1363.9	1309.5
12.5°	1704.3	1698.7	1668.5	1631.2	1581.9	1535.9	1523.9	1484.9	1428.2	1363.9	1299.9
15°	1702.1	1698.1	1668.0	1627.1	1577.4	1537.1	1526.3	1487.1	1426.5	1358.3	1287.5
17.5°	1656.7	1658.4	1632.9	1592.6	1551.7	1521.0	1511.4	1475.3	1415.0	1347.0	1272.8
20°	1577.4	1585.3	1568.1	1532.5	1509.7	1488.8	1482.6	1451.9	1397.5	1330.6	1256.8
22.5°	1497.9	1505.2	1498.4	1468.3	1464.9	1452.5	1449.1	1427.0	1382.2	1320.4	1247.2
25°	1439.5	1446.3	1445.1	1418.9	1429.3	1428.7	1425.9	1415.0	1378.8	1320.4	1248.9
27.5°	1423.7	1425.9	1423.7	1399.7	1413.9	1425.4	1423.1	1421.2	1389.0	1336.8	1270.5
30°	1478.1	1474.7	1457.0	1408.8	1422.0	1437.8	1435.5	1436.7	1419.5	1380.0	1318.7
32.5°	1695.3	1679.8	1624.3	1488.8	1454.2	1462.6	1463.8	1482.6	1485.4	1446.3	1393.5
35°	2020.2	2003.3	1931.1	1703.2	1554.6	1525.2	1525.2	1553.4	1570.4	1541.6	1509.7
37.5°	2364.5	2345.7	2307.3	2000.4	1765.5	1633.5	1630.7	1650.4	1674.7	1681.7	1689.6
40°	2755.8	2736.0	2746.7	2333.8	2060.0	1821.1	1780.8	1766.7	1832.4	1876.1	1939.8
42.5°	3184.1	3174.9	3178.8	2705.3	2395.1	2102.0	2044.7	1971.4	2050.9	2128.5	2261.9
45°	3580.4	3588.3	3584.4	3102.9	2768.4	2444.4	2383.7	2241.9	2319.7	2452.9	2670.3
47.5°	3927.6	3894.6	3945.7	3537.3	3186.4	2827.9	2752.9	2563.1	2641.8	2806.3	3173.7
50°	4349.0	4344.4	4269.7	4117.1	3691.6	3212.9	3114.8	2894.8	3017.2	3245.9	3808.5
52.5°	4792.0	4709.7	4641.1	4567.8	4227.6	3607.7	3487.4	3225.4	3458.6	3746.0	4582.1
55°	4882.6	4845.9	4930.8	5054.0	4744.3	4017.8	3877.7	3640.0	3955.5	4317.9	5474.2
57.5°	5076.6	5076.0	5252.0	5471.4	5276.3	4452.7	4311.5	4140.8	4514.0	4972.8	6421.3
60°	5207.7	5244.4	5571.3	5997.1	5798.6	4955.3	4825.3	4718.7	5149.3	5705.0	7303.8
62.5°	5276.3	5326.2	5772.0	6210.4	6537.0	5791.8	5662.0	5508.3	5989.8	6508.2	7819.9
65°	4991.1	5089.0	5740.8	6394.8	7183.6	7147.9	7089.5	6819.5	7040.7	7142.8	7633.5
67.5°	4201.5	4301.9	5060.8	6222.8	7645.3	8455.9	8468.3	8007.2	7687.3	7197.2	6417.9
70°	2993.5	3072.2	3700.2	5217.3	7293.7	9310.5	9353.0	8554.4	7558.5	6382.7	4484.0
72.5°	1421.2	1469.4	2063.9	3395.6	5787.9	8530.6	8613.0	7855.7	6427.0	4725.5	2446.1
75°	522.3	537.0	697.5	1444.6	3357.0	6291.0	6388.0	5631.3	4260.4	2352.7	931.8
77.5°	313.1	322.7	391.4	609.7	1320.4	3595.9	3739.2	3062.6	1862.0	875.7	458.3
80°	218.9	225.7	280.7	379.4	623.9	1370.4	1497.9	1250.0	741.8	554.2	333.4
82.5°	148.1	151.4	197.4	256.4	414.6	489.4	528.0	555.9	500.3	412.3	211.5
85°	97.0	100.4	133.9	169.0	263.7	253.0	258.6	327.2	365.2	280.1	117.4
87.5°	55.6	57.8	80.6	90.2	129.4	107.2	108.3	172.4	233.8	188.9	71.4
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°	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6	1352.6
2.5°	1347.6	1340.2	1323.8	1313.5	1303.9	1301.6	1297.6	1297.1	1296.5	1296.5	1294.8
5°	1317.4	1305.0	1279.6	1265.2	1253.4	1252.2	1251.7	1254.5	1255.6	1256.8	1255.1
7.5°	1298.2	1281.3	1249.4	1229.1	1214.9	1211.4	1217.2	1230.2	1238.7	1242.1	1240.4
10°	1286.3	1265.2	1228.5	1206.3	1194.4	1192.7	1200.1	1215.5	1233.0	1239.8	1239.2
12.5°	1272.8	1248.9	1209.7	1186.5	1179.7	1183.1	1192.7	1206.8	1225.1	1235.9	1236.4
15°	1259.0	1231.3	1191.0	1170.7	1167.9	1172.4	1181.4	1192.2	1206.3	1217.2	1218.3
17.5°	1242.6	1213.6	1173.5	1152.4	1150.2	1152.4	1153.0	1158.6	1167.9	1178.0	1180.9
20°	1225.1	1195.5	1153.5	1132.6	1122.5	1113.4	1103.1	1104.2	1107.0	1117.4	1119.6
22.5°	1212.5	1183.1	1138.3	1109.3	1082.2	1054.8	1034.5	1031.7	1032.8	1041.3	1044.1
25°	1213.6	1182.6	1134.3	1084.4	1024.9	981.2	953.9	949.4	948.8	955.0	959.2
27.5°	1235.9	1204.6	1149.0	1058.8	962.5	897.7	868.9	865.5	861.0	862.7	867.2
30°	1285.2	1256.2	1184.8	1032.8	894.9	816.2	786.0	782.7	776.4	773.6	777.0
32.5°	1365.6	1341.9	1237.0	1007.7	827.5	746.3	715.8	708.4	704.5	701.1	703.9
35°	1499.6	1489.4	1306.7	980.6	768.0	692.4	664.7	653.4	647.8	654.0	658.5
37.5°	1709.4	1715.1	1398.0	938.1	722.0	656.8	633.5	620.5	612.0	617.1	622.2
40°	2006.6	2010.6	1499.0	878.0	682.3	635.7	610.9	599.0	586.9	577.9	577.3
42.5°	2396.7	2356.6	1598.3	812.8	636.3	622.7	595.0	580.2	562.1	537.0	531.9
45°	2859.6	2718.5	1673.6	737.8	584.7	606.9	577.3	557.0	528.6	501.4	498.6
47.5°	3392.8	3106.9	1710.5	660.2	536.5	583.6	555.9	523.5	487.7	474.1	472.4
50°	4043.8	3568.0	1728.1	584.7	494.6	553.0	524.6	486.5	456.6	453.8	452.1
52.5°	4785.2	4122.7	1733.9	522.9	460.0	513.3	499.2	462.2	438.3	440.8	440.8
55°	5561.1	4695.5	1656.7	478.1	428.2	472.4	482.0	452.6	432.7	441.9	445.3
57.5°	6273.3	5203.2	1413.9	443.6	398.2	441.3	475.8	461.7	448.1	484.8	487.1
60°	6820.1	5503.1	1056.0	412.3	376.0	430.4	492.4	496.3	499.7	587.5	599.6
62.5°	6934.6	5403.4	726.0	388.0	365.8	439.6	522.3	522.9	518.9	580.2	587.5
65°	6408.9	4772.0	528.0	374.3	357.3	456.0	548.0	535.9	509.9	556.4	542.7
67.5°	5089.6	3595.3	439.6	364.1	344.9	454.9	575.1	548.0	504.8	545.1	522.9
70°	3303.7	2173.9	391.4	355.6	330.0	433.2	590.9	546.8	489.9	507.1	480.9
72.5°	1611.8	972.1	359.0	343.2	314.8	403.3	590.3	536.5	474.7	473.5	459.4
75°	630.6	445.3	329.4	324.4	288.8	369.2	574.5	521.8	456.6	438.3	433.2
77.5°	369.2	317.6	292.2	296.7	257.5	335.1	551.3	496.3	431.5	410.1	404.4
80°	268.8	237.7	249.0	256.4	220.0	301.2	520.1	465.1	403.9	414.6	406.7
82.5°	172.4	153.1	201.9	209.3	183.3	266.5	486.0	432.1	364.7	331.1	323.2
85°	88.0	97.0	150.3	159.4	141.3	218.9	444.7	388.6	320.4	275.6	280.1
87.5°	49.4	66.3	95.9	107.2	99.8	168.4	360.7	320.4	261.4	212.7	187.2
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)