

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: P270135

Luminaire Tested: **GWC-AF-02-LED-E1-T3R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-T3R-7027-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8764.7 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

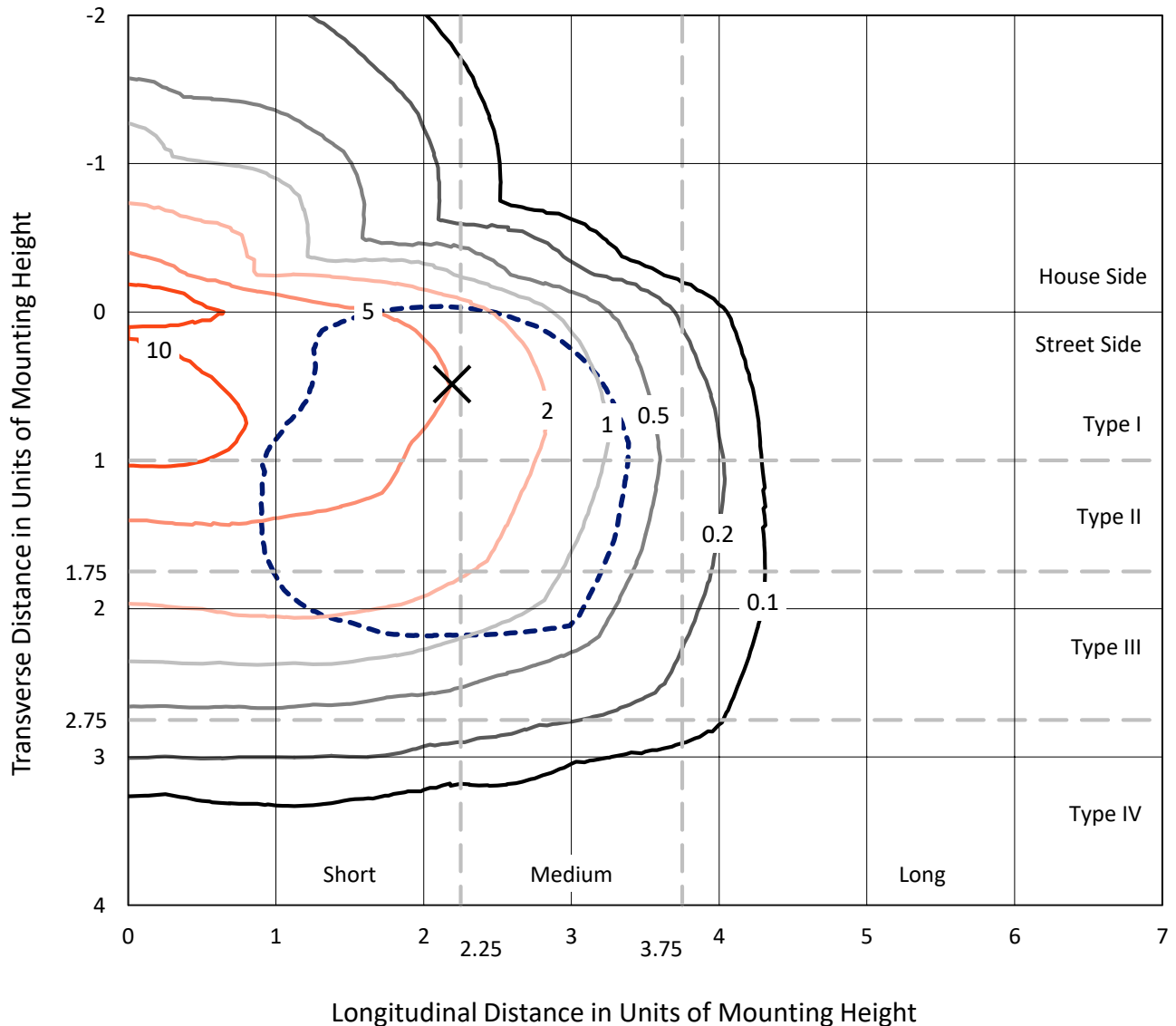
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

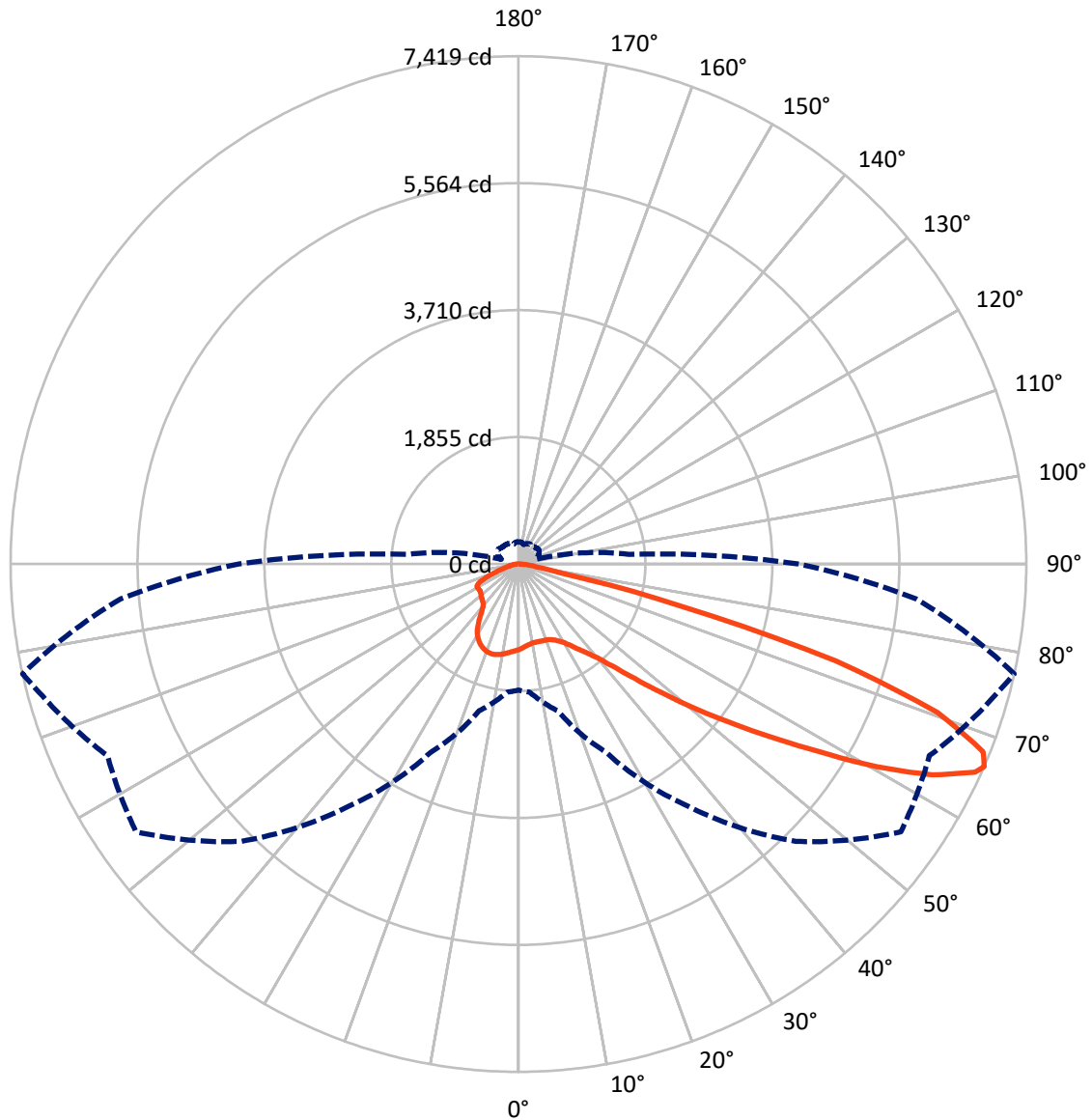
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1497.4	0.0	1497.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	7267.3	0.0	7267.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	8764.7	0.0	8764.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	1.3
10°-20°	314.8	3.6
20°-30°	537.3	6.1
30°-40°	860.1	9.8
40°-50°	1328.7	15.2
50°-60°	1884.6	21.5
60°-70°	2521.1	28.8
70°-80°	1094.9	12.5
80°-90°	111.6	1.3
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°	8764.7	100.0
0°-180°	8764.7	100.0



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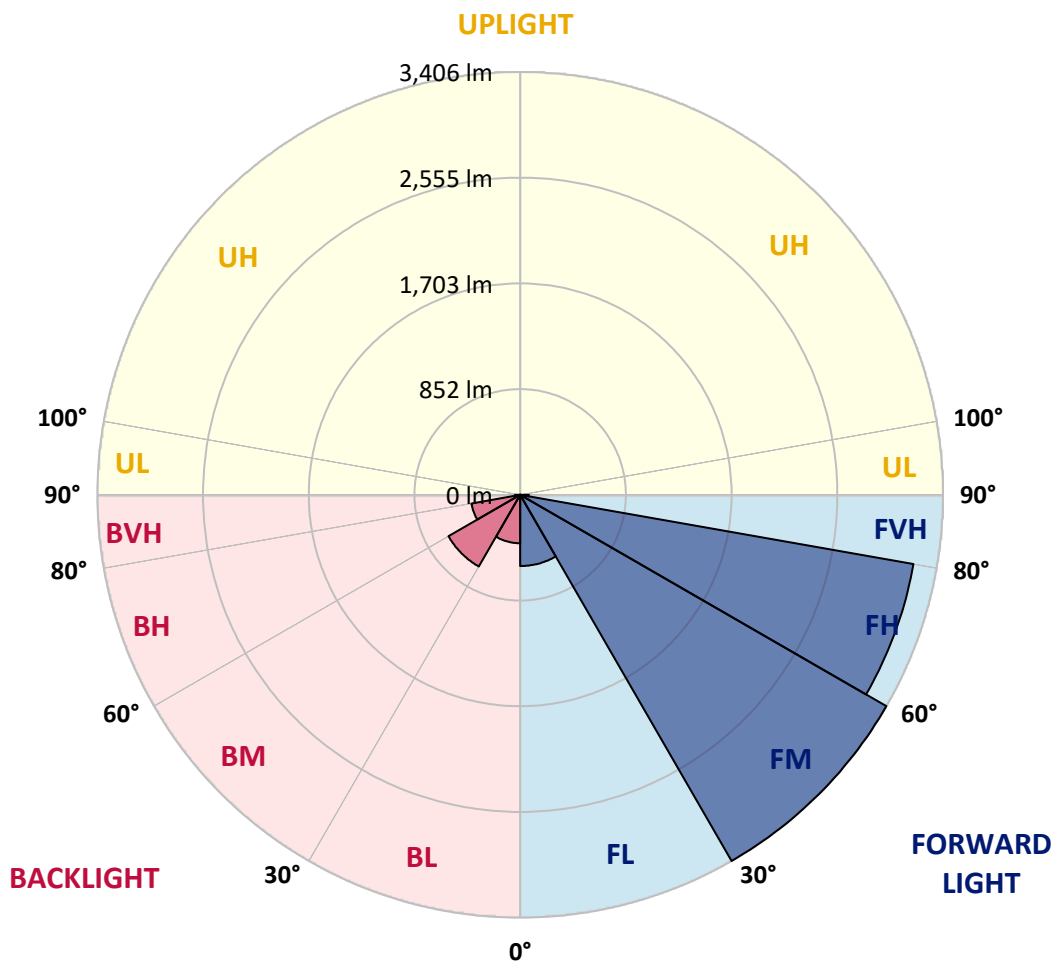
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	573.7	6.5			
FM	(30°-60°)	3406.4	38.9			
FH	(60°-80°)	3217.2	36.7			G2/5000
FVH	(80°-90°)	70.0	0.8			G1/100
BL	(0°-30°)	390.0	4.4	B1/500		
BM	(30°-60°)	667.0	7.6	B1/1000		
BH	(60°-80°)	398.8	4.5	B1/500		G1/500
BVH	(80°-90°)	41.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0
2.5°	1104.8	1112.4	1118.6	1124.3	1135.9	1155.0	1177.0	1194.7	1220.4	1225.4	1239.0
5°	1003.4	1003.4	1008.3	1017.2	1032.9	1061.4	1091.3	1131.0	1186.8	1200.1	1236.5
7.5°	954.2	954.5	957.4	965.0	978.5	1004.7	1037.4	1084.2	1160.0	1181.9	1244.1
10°	972.4	968.2	962.1	958.3	960.4	975.6	1006.7	1058.9	1143.5	1171.5	1260.6
12.5°	1074.3	1066.4	1044.8	1016.3	988.9	977.8	996.0	1047.0	1136.4	1169.1	1282.6
15°	1240.7	1237.4	1197.3	1138.1	1071.8	1016.3	1003.9	1042.3	1137.2	1172.0	1308.7
17.5°	1449.5	1444.8	1391.9	1305.7	1197.6	1089.6	1031.6	1046.1	1140.0	1177.0	1333.9
20°	1660.2	1646.1	1589.0	1486.3	1347.6	1189.4	1077.5	1055.6	1143.8	1182.3	1360.4
22.5°	1817.5	1806.0	1754.7	1654.8	1495.0	1305.0	1139.3	1072.1	1155.8	1198.1	1393.2
25°	1956.0	1956.7	1905.8	1809.3	1644.1	1427.5	1218.8	1116.5	1186.5	1230.4	1437.8
27.5°	2126.9	2116.9	2069.4	1973.7	1791.5	1551.3	1314.8	1177.4	1232.0	1276.3	1496.7
30°	2331.6	2324.5	2269.4	2160.9	1955.1	1684.2	1424.6	1248.2	1290.9	1336.8	1573.7
32.5°	2572.2	2568.8	2511.7	2372.1	2143.9	1840.8	1553.4	1341.8	1378.6	1426.2	1684.2
35°	2854.6	2855.0	2787.4	2619.7	2350.6	2023.0	1699.6	1462.4	1485.4	1535.2	1815.9
37.5°	3028.5	3049.6	3024.4	2853.4	2584.5	2226.8	1889.2	1622.1	1607.2	1657.3	1957.2
40°	3065.8	3091.4	3171.4	3084.4	2846.3	2451.2	2057.3	1775.8	1757.2	1818.4	2139.0
42.5°	3013.6	3049.2	3218.2	3279.5	3124.2	2727.8	2283.5	2004.0	1980.3	2062.8	2365.1
45°	2982.6	3009.1	3204.5	3381.0	3365.2	3040.5	2571.3	2290.6	2281.9	2389.9	2626.0
47.5°	2928.7	2952.7	3140.7	3404.6	3506.8	3327.1	2917.2	2640.8	2657.9	2799.5	2920.4
50°	2957.8	2967.6	3069.5	3344.5	3547.9	3537.0	3303.5	3046.7	3104.7	3281.5	3253.8
52.5°	2953.6	2979.2	3061.2	3245.9	3553.2	3666.7	3684.0	3499.4	3621.5	3824.4	3623.6
55°	2387.9	2435.0	2963.9	3221.1	3572.3	3793.8	4022.8	3976.4	4204.2	4440.7	4041.0
57.5°	2280.3	2310.0	2603.2	3273.2	3673.3	4036.5	4399.7	4501.6	4882.5	5157.1	4549.6
60°	2259.1	2296.0	2599.5	3337.0	3878.3	4432.1	4958.4	5137.2	5707.9	6008.6	5139.4
62.5°	2193.2	2232.9	2575.1	3328.8	4169.4	4979.1	5673.5	5813.1	6490.6	6782.9	5632.6
65°	1984.5	2021.7	2375.8	3195.0	4365.8	5562.9	6520.1	6432.7	7108.5	7328.4	5878.5
66°	1841.6	1878.1	2218.8	3037.6	4320.2	5728.6	6819.8	6624.4	7246.8	7419.1	5830.4
67.5°	1580.3	1608.9	1914.0	2685.1	4077.9	5775.0	7072.0	6768.5	7261.4	7322.2	5555.9
70°	998.5	1006.7	1244.1	1853.7	3086.9	5008.4	6688.2	6410.8	6662.5	6497.6	4657.7
72.5°	433.3	430.3	597.1	943.0	1747.7	3360.6	5410.2	5289.7	5226.2	4850.3	3260.4
75°	241.0	244.3	310.2	437.7	710.2	1650.7	3539.1	3386.7	2859.5	2440.0	1478.4
77.5°	193.3	198.0	257.1	310.5	318.9	575.6	1656.0	1347.6	811.3	651.0	410.8
80°	152.8	161.2	224.4	241.9	215.0	237.2	535.0	427.8	320.9	294.5	212.8
82.5°	120.9	126.7	192.6	183.1	150.3	159.9	256.4	249.7	208.7	190.1	123.0
85°	87.0	97.7	158.2	137.9	98.6	107.7	170.2	163.1	119.7	97.7	54.3
87.5°	35.6	46.4	111.8	91.5	55.1	50.0	84.9	79.9	56.8	41.4	26.9
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°	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0
2.5°	1247.7	1257.7	1270.5	1278.4	1282.6	1285.5	1290.0	1289.6	1290.9	1291.2	1292.9
5°	1256.0	1272.6	1291.2	1296.2	1296.2	1291.7	1287.1	1279.6	1276.8	1276.0	1276.8
7.5°	1277.6	1295.8	1312.0	1306.1	1293.7	1275.5	1251.9	1231.2	1220.1	1216.3	1215.4
10°	1305.0	1326.9	1333.5	1311.5	1275.1	1231.2	1184.4	1150.5	1131.0	1125.6	1124.0
12.5°	1338.0	1358.8	1349.6	1303.3	1235.8	1164.9	1100.3	1046.1	1005.5	992.6	991.8
15°	1374.5	1390.7	1358.8	1277.6	1177.0	1072.6	957.4	863.8	813.3	797.2	796.0
17.5°	1408.5	1416.7	1353.4	1232.9	1090.4	921.4	768.6	696.5	679.1	683.3	684.1
20°	1437.5	1437.5	1335.2	1168.6	954.2	722.3	625.7	624.5	636.9	649.4	651.8
22.5°	1469.4	1450.2	1303.3	1078.0	761.1	591.0	576.9	588.5	602.6	616.2	618.3
25°	1508.6	1460.6	1259.0	940.4	598.4	536.7	542.0	551.6	558.7	567.4	568.6
27.5°	1552.5	1473.9	1200.6	751.3	519.3	502.8	506.9	510.2	509.3	512.8	513.5
30°	1605.1	1489.2	1120.6	587.2	486.6	473.8	466.3	463.4	463.4	468.8	470.8
32.5°	1675.5	1512.0	1005.9	503.1	470.8	453.1	429.0	418.3	422.4	440.6	444.8
35°	1753.0	1536.5	850.6	474.6	467.6	443.6	406.3	386.5	386.8	403.8	409.2
37.5°	1837.5	1567.5	680.4	469.2	475.0	443.9	394.3	367.0	355.7	355.7	357.8
40°	1945.6	1599.3	550.8	473.0	490.7	449.0	388.1	351.6	320.2	320.9	322.7
42.5°	2086.4	1626.7	481.1	480.8	509.8	455.5	387.6	331.3	303.9	322.7	339.6
45°	2242.9	1640.3	450.6	487.9	525.1	459.7	381.1	328.0	306.1	361.6	393.8
47.5°	2423.0	1632.5	433.6	490.3	528.8	459.7	373.6	335.9	320.5	418.6	456.3
50°	2620.6	1609.8	417.0	485.4	527.6	458.9	380.5	343.7	325.9	428.6	454.7
52.5°	2852.9	1590.6	399.7	474.6	518.9	454.3	388.9	340.4	308.9	389.7	407.9
55°	3118.0	1596.0	380.2	459.3	505.2	445.6	385.9	327.2	291.1	343.3	354.5
57.5°	3456.8	1660.2	357.0	439.8	486.6	431.1	375.6	320.9	285.8	311.4	318.0
60°	3834.8	1772.0	328.0	420.4	463.4	407.9	367.7	323.8	288.2	308.9	312.3
62.5°	4112.3	1837.0	303.2	391.8	432.0	382.2	357.8	327.5	294.8	317.6	316.7
65°	4187.6	1730.2	272.1	350.0	389.3	355.4	345.4	331.7	297.8	324.6	320.9
66°	4082.1	1615.1	258.4	330.5	367.7	342.1	339.1	331.3	296.5	325.5	319.3
67.5°	3825.7	1379.1	234.8	301.9	333.4	322.1	329.2	327.5	293.2	324.6	316.0
70°	3120.0	940.9	200.9	251.3	277.5	283.7	310.2	314.3	282.4	310.2	291.1
72.5°	2180.0	573.1	177.6	195.1	224.4	241.9	284.0	296.1	268.0	270.8	252.6
75°	1053.5	304.4	161.2	151.2	174.4	202.1	252.6	271.2	245.1	226.6	219.9
77.5°	328.4	185.9	136.6	121.7	136.6	163.1	211.2	237.8	218.3	189.7	187.2
80°	176.3	136.6	105.2	97.7	108.1	127.9	166.0	198.3	187.6	170.2	152.0
82.5°	116.3	88.7	77.9	75.7	82.4	97.7	123.4	164.4	164.4	145.8	106.0
85°	60.0	54.3	53.4	53.4	57.6	65.0	84.1	126.7	135.0	77.0	63.8
87.5°	29.8	31.1	28.9	30.2	32.3	31.8	40.2	63.8	76.3	46.8	38.9
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)