

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: P270239

Luminaire Tested: **GWC-AF-02-LED-E1-T4W-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7027-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8658.6 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - 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

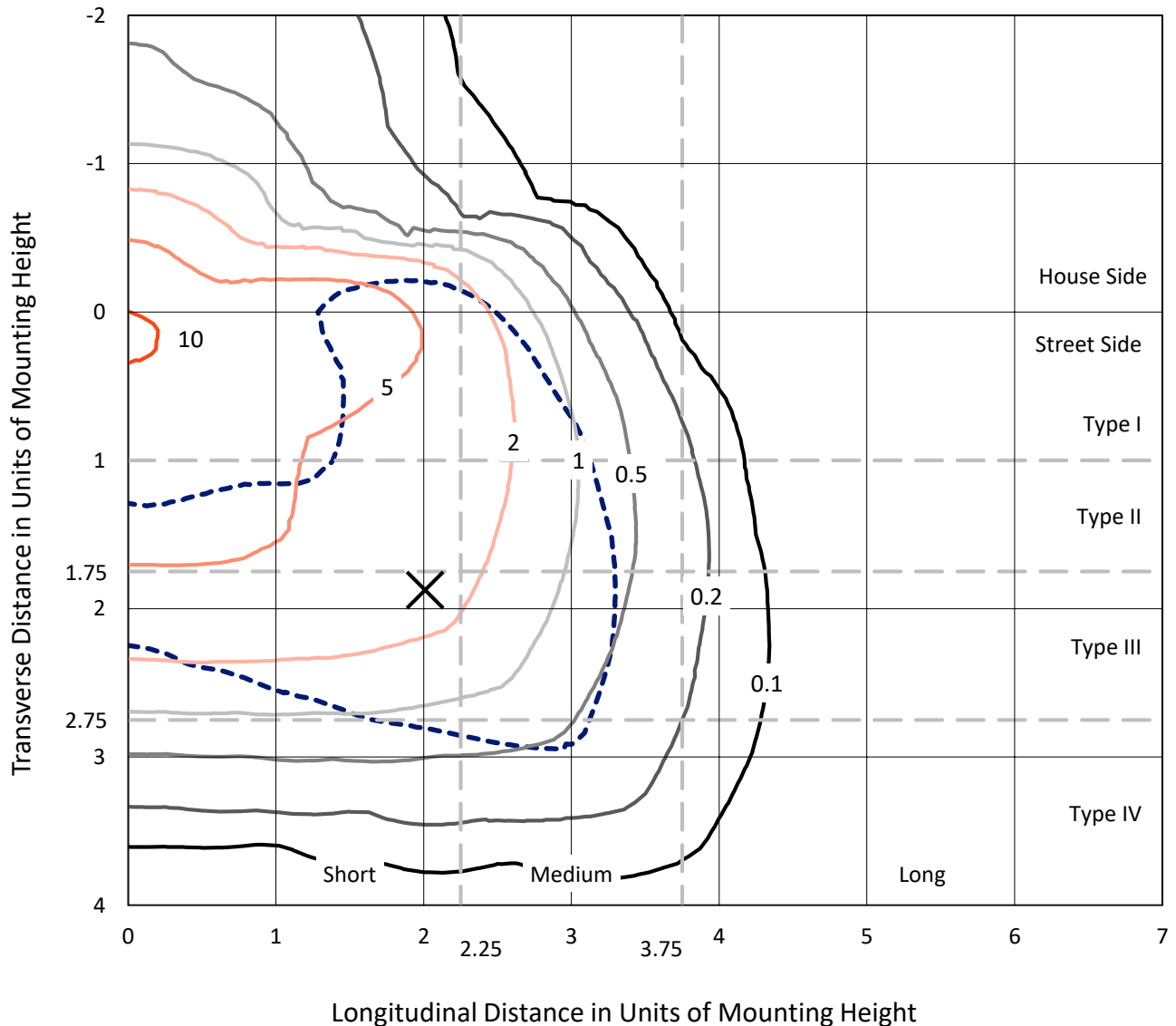


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Iso-Footcandle Lines of Horizontal Illumination

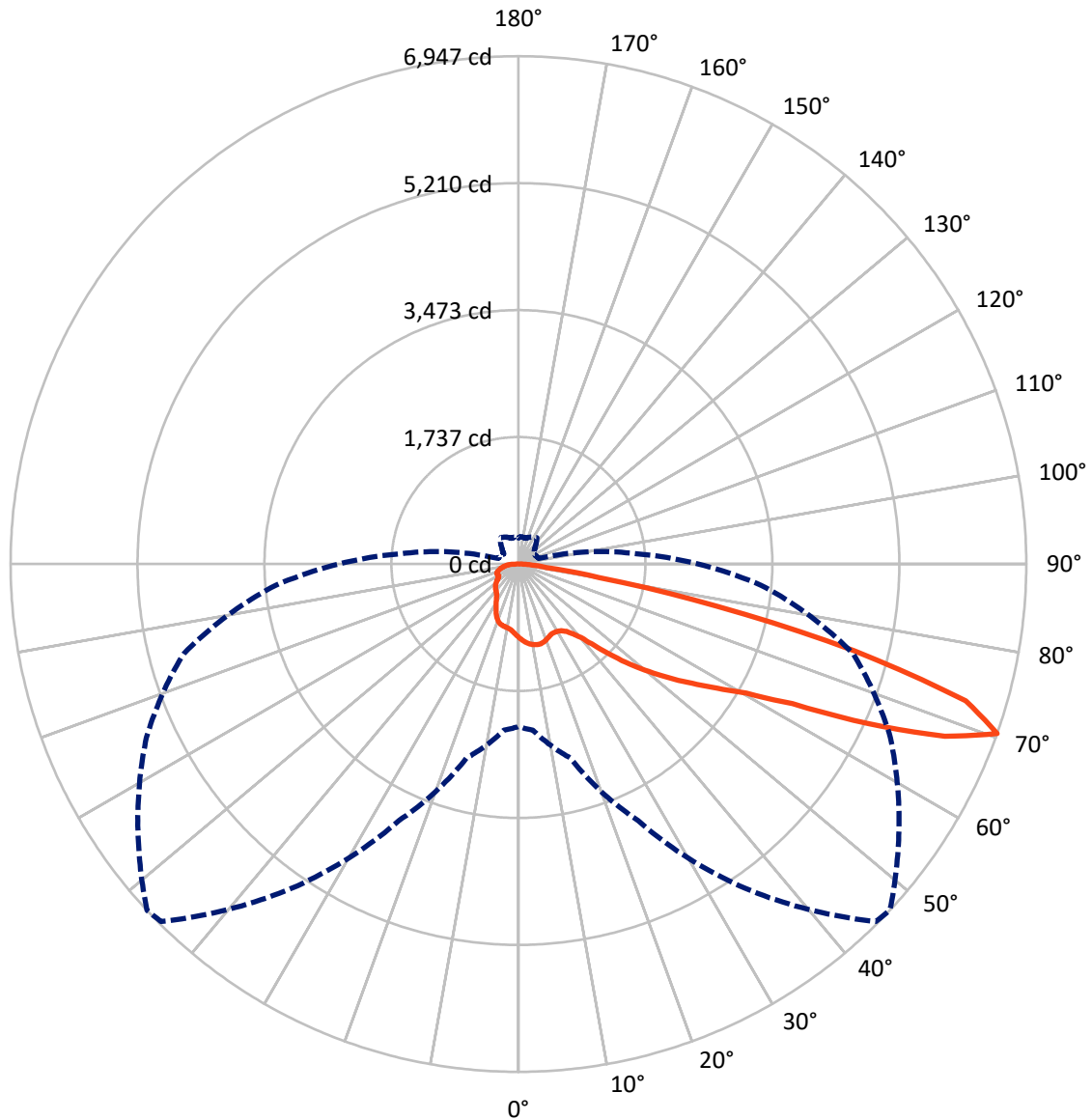
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 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	1806.4	0.0	1806.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	6852.3	0.0	6852.3
	% Fixture	79.1	0.0	79.1
Total	Lumens	8658.6	0.0	8658.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	1.1
10°-20°	282.4	3.3
20°-30°	417.1	4.8
30°-40°	606.2	7.0
40°-50°	1090.9	12.6
50°-60°	1889.9	21.8
60°-70°	2697.4	31.2
70°-80°	1384.7	16.0
80°-90°	193.9	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°	8658.6	100.0
0°-180°	8658.6	100.0

Coefficient of Utilization



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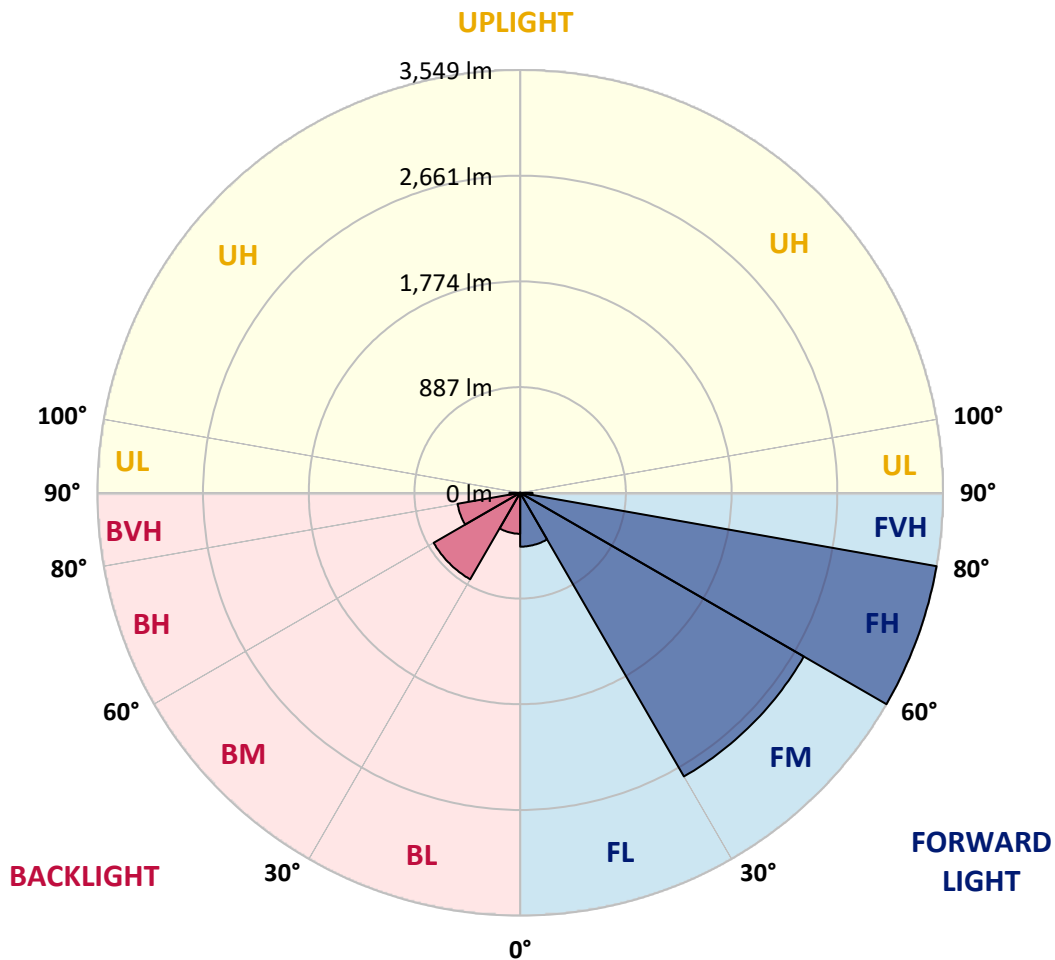
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	451.8	5.2			
FM	(30°-60°)	2748.5	31.7			
FH	(60°-80°)	3548.5	41.0			G2/5000
FVH	(80°-90°)	103.4	1.2			G2/225
BL	(0°-30°)	343.9	4.0	B1/500		
BM	(30°-60°)	838.5	9.7	B1/1000		
BH	(60°-80°)	533.5	6.2	B2/1000		G2/1000
BVH	(80°-90°)	90.4	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7
2.5°	1063.7	1061.5	1060.7	1059.0	1056.9	1046.3	1044.3	1036.6	1026.1	1015.3	1003.9
5°	1133.7	1133.1	1128.5	1120.0	1106.6	1083.4	1078.0	1059.5	1034.6	1010.6	986.6
7.5°	1195.0	1191.3	1182.3	1165.6	1141.9	1110.5	1102.8	1077.1	1043.0	1010.1	977.7
10°	1240.1	1238.0	1218.7	1195.6	1164.7	1129.8	1120.9	1092.2	1054.8	1013.1	972.7
12.5°	1265.8	1261.6	1239.3	1211.5	1174.9	1140.8	1131.9	1102.8	1060.7	1013.1	965.5
15°	1264.2	1261.2	1238.9	1208.6	1171.5	1141.6	1133.7	1104.5	1059.5	1008.8	956.2
17.5°	1230.5	1231.8	1212.7	1182.9	1152.5	1129.8	1122.6	1095.7	1050.9	1000.4	945.2
20°	1171.5	1177.4	1164.7	1138.2	1121.4	1105.8	1101.1	1078.3	1037.9	988.2	933.5
22.5°	1112.6	1118.0	1112.9	1090.6	1088.0	1078.9	1076.3	1059.9	1026.6	980.7	926.3
25°	1069.2	1074.2	1073.4	1053.9	1061.5	1061.1	1059.0	1050.9	1024.1	980.7	927.6
27.5°	1057.3	1059.0	1057.3	1039.6	1050.2	1058.7	1056.9	1055.7	1031.7	992.8	943.6
30°	1097.8	1095.3	1082.2	1046.3	1056.0	1067.8	1066.2	1066.9	1054.4	1024.8	979.4
32.5°	1259.2	1247.7	1206.5	1105.8	1080.1	1086.4	1087.2	1101.1	1103.3	1074.2	1034.9
35°	1500.4	1487.9	1434.4	1265.1	1154.6	1132.8	1132.8	1153.9	1166.4	1144.9	1121.4
37.5°	1756.1	1742.3	1713.6	1485.7	1311.3	1213.3	1211.0	1225.8	1244.0	1249.1	1254.9
40°	2046.9	2032.1	2040.1	1733.4	1530.0	1352.6	1322.8	1312.2	1361.0	1393.5	1440.6
42.5°	2364.9	2358.1	2361.0	2009.4	1779.0	1561.2	1518.6	1464.2	1523.3	1580.9	1679.9
45°	2659.3	2665.2	2662.2	2304.6	2056.1	1815.6	1770.5	1665.2	1722.9	1821.9	1983.2
47.5°	2917.2	2892.7	2930.6	2627.4	2366.6	2100.3	2044.7	1903.6	1962.2	2084.2	2357.3
50°	3230.1	3226.7	3171.1	3057.8	2741.8	2386.3	2313.4	2150.1	2241.0	2410.8	2828.7
52.5°	3559.2	3498.0	3447.1	3392.7	3139.9	2679.6	2590.3	2395.6	2568.8	2782.3	3403.3
55°	3626.5	3599.1	3662.3	3753.7	3523.7	2984.1	2880.1	2703.5	2937.7	3206.9	4065.9
57.5°	3770.5	3770.1	3900.7	4063.8	3918.9	3307.2	3202.3	3075.4	3352.7	3693.6	4769.3
60°	3867.9	3895.3	4138.0	4454.2	4306.8	3680.4	3584.0	3504.7	3824.4	4237.3	5424.9
62.5°	3918.9	3956.0	4287.0	4612.6	4855.2	4301.8	4205.2	4091.2	4448.8	4833.8	5808.1
65°	3706.9	3779.9	4263.9	4749.6	5335.6	5309.0	5265.5	5065.1	5229.4	5305.2	5669.6
67.5°	3120.6	3195.1	3758.8	4621.9	5678.4	6280.3	6289.7	5947.1	5709.5	5345.6	4766.9
70°	2223.3	2281.9	2748.3	3875.1	5417.1	6915.2	6946.8	6353.6	5614.0	4740.6	3330.3
72.5°	1055.7	1091.4	1532.9	2522.0	4298.7	6335.9	6397.0	5834.8	4773.6	3509.8	1816.8
75°	388.0	398.8	518.1	1072.9	2493.3	4672.4	4744.5	4182.6	3164.4	1747.4	692.1
77.5°	232.5	239.7	290.6	452.8	980.7	2670.8	2777.3	2274.7	1382.9	650.5	340.4
80°	162.7	167.7	208.5	281.8	463.3	1017.7	1112.6	928.4	551.0	411.6	247.8
82.5°	110.0	112.5	146.7	190.4	307.8	363.5	392.2	412.9	371.4	306.2	157.2
85°	72.0	74.6	99.4	125.6	195.9	187.8	192.1	243.0	271.3	208.0	87.1
87.5°	41.3	42.9	59.7	67.0	96.1	79.6	80.5	128.1	173.6	140.2	53.1
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°	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7
2.5°	1000.9	995.4	983.1	975.6	968.5	966.8	963.8	963.4	963.0	963.0	961.6
5°	978.6	969.4	950.3	939.7	931.0	930.1	929.7	931.8	932.6	933.5	932.3
7.5°	964.2	951.6	927.9	912.9	902.3	899.8	904.0	913.7	920.0	922.5	921.2
10°	955.3	939.7	912.4	896.0	887.2	885.9	891.4	902.7	915.8	920.9	920.5
12.5°	945.2	927.6	898.6	881.2	876.1	878.7	885.9	896.4	910.0	917.9	918.2
15°	935.1	914.6	884.7	869.5	867.4	870.6	877.5	885.5	896.0	904.0	904.9
17.5°	923.0	901.4	871.5	855.9	854.3	855.9	856.4	860.5	867.4	874.9	877.0
20°	910.0	888.0	856.9	841.3	833.6	826.9	819.3	820.2	822.3	829.9	831.6
22.5°	900.6	878.7	845.5	823.9	803.8	783.5	768.3	766.3	767.2	773.4	775.4
25°	901.4	878.4	842.5	805.4	761.3	728.7	708.6	705.2	704.7	709.4	712.4
27.5°	917.9	894.7	853.4	786.5	714.8	666.8	645.3	642.7	639.5	640.8	644.1
30°	954.5	933.1	880.0	767.2	664.7	606.1	583.9	581.4	576.7	574.6	577.2
32.5°	1014.4	996.7	918.7	748.6	614.6	554.3	531.5	526.1	523.3	520.7	522.8
35°	1113.8	1106.3	970.6	728.3	570.3	514.3	493.7	485.3	481.0	485.8	489.0
37.5°	1269.7	1273.8	1038.4	696.7	536.3	487.8	470.5	460.8	454.5	458.3	462.1
40°	1490.4	1493.3	1113.4	652.1	506.7	472.1	453.6	444.8	435.9	429.2	428.9
42.5°	1780.3	1750.3	1187.1	603.7	472.7	462.5	441.8	430.9	417.4	398.8	395.2
45°	2124.0	2019.0	1243.2	548.1	434.3	450.7	428.9	413.7	392.6	372.3	370.3
47.5°	2519.8	2307.6	1270.5	490.4	398.5	433.4	412.9	388.7	362.2	352.1	350.9
50°	3003.6	2650.1	1283.6	434.3	367.3	410.7	389.7	361.4	339.1	337.0	335.7
52.5°	3554.1	3062.1	1287.7	388.3	341.6	381.2	370.7	343.3	325.6	327.3	327.3
55°	4130.2	3487.5	1230.5	355.1	318.0	350.9	358.1	336.1	321.5	328.2	330.7
57.5°	4659.4	3864.5	1050.2	329.4	295.7	327.7	353.5	343.0	332.8	360.2	361.8
60°	5065.5	4087.4	784.4	306.2	279.4	319.7	365.6	368.6	371.1	436.3	445.3
62.5°	5150.5	4013.2	539.3	288.1	271.6	326.4	388.0	388.3	385.5	430.9	436.3
65°	4760.1	3544.4	392.2	278.0	265.4	338.8	406.9	398.0	378.6	413.2	403.1
67.5°	3780.2	2670.3	326.4	270.4	256.0	337.9	427.1	406.9	375.0	404.9	388.3
70°	2453.8	1614.7	290.6	264.1	245.1	321.9	438.9	406.0	364.0	376.6	357.3
72.5°	1197.3	722.0	266.6	254.8	233.7	299.6	438.6	398.5	352.6	351.7	341.1
75°	468.5	330.7	244.8	240.9	214.4	274.3	426.8	387.6	339.1	325.6	321.9
77.5°	274.3	235.9	216.9	220.4	191.2	249.0	409.4	368.6	320.5	304.5	300.4
80°	199.7	176.4	185.0	190.4	163.4	223.7	386.4	345.4	299.9	307.8	302.0
82.5°	128.1	113.7	149.9	155.4	136.1	197.9	360.9	321.0	270.8	246.0	240.0
85°	65.2	72.0	111.6	118.3	104.9	162.7	330.2	288.5	238.1	204.8	208.0
87.5°	36.7	49.2	71.1	79.6	74.1	125.1	268.0	238.1	194.3	157.9	139.0
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)