

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: P200686

Luminaire Tested: **GWC-AF-02-LED-E1-T4FT-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-8030-800
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8239 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-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



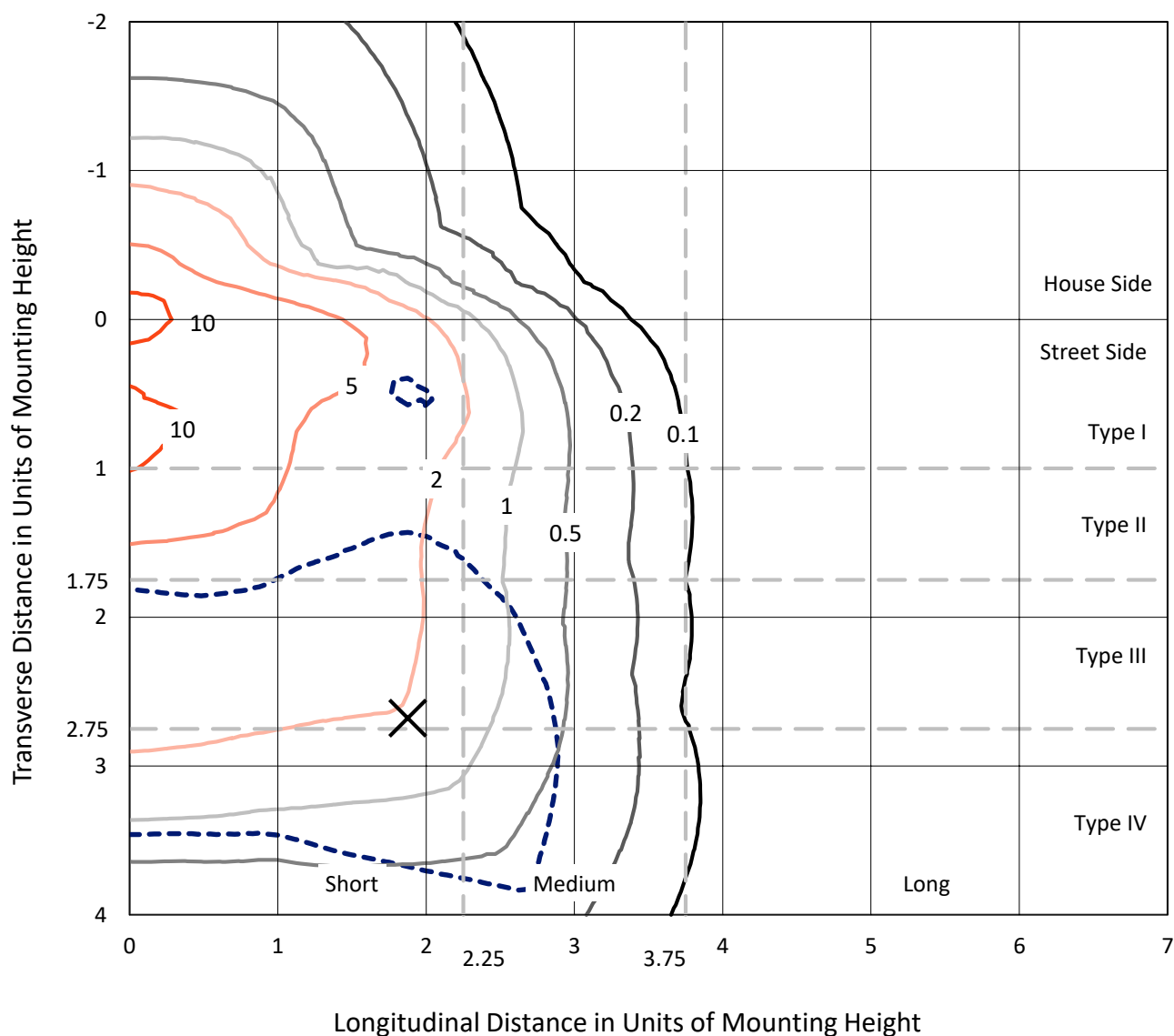
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

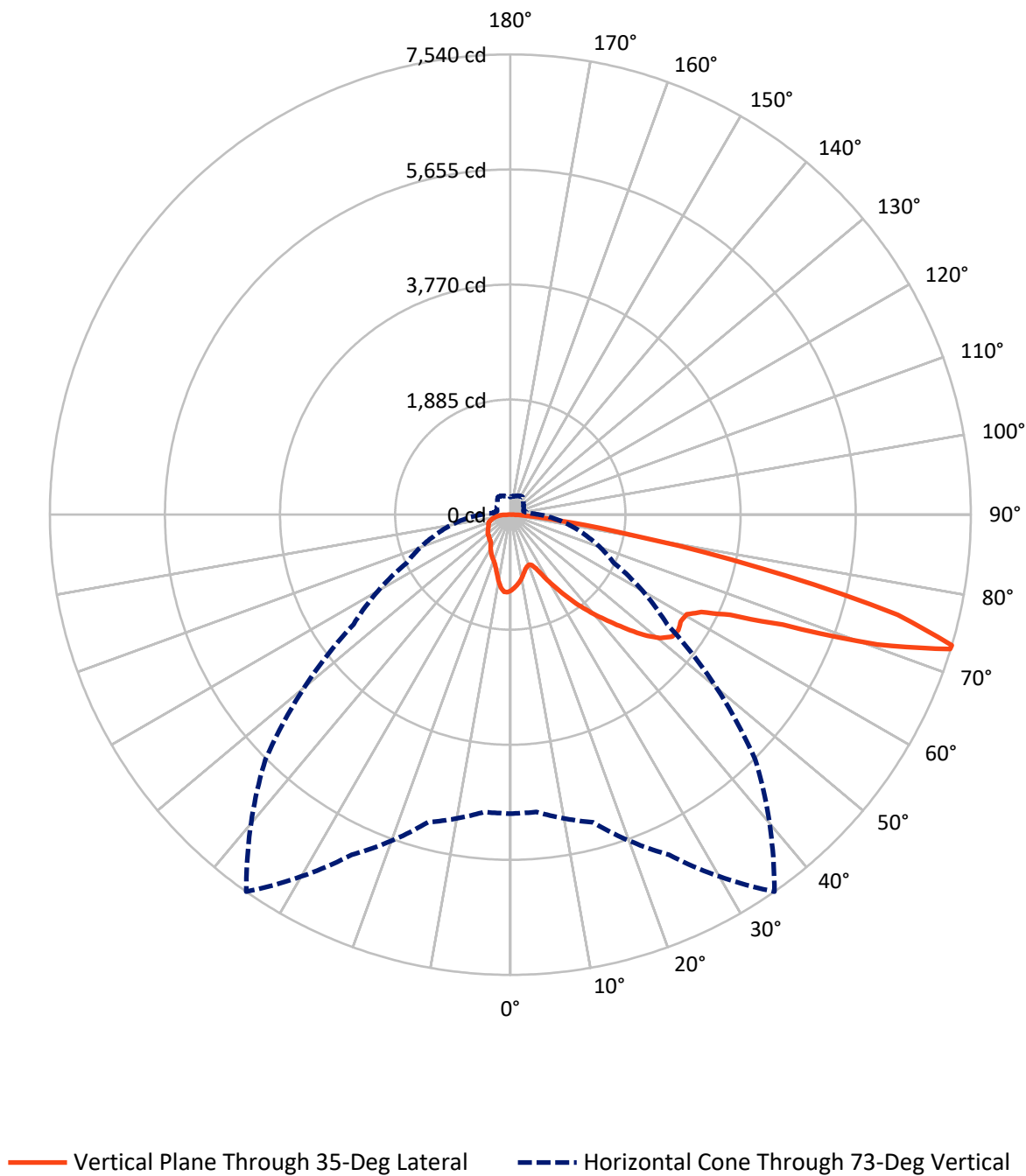


Based on 10 foot mounting height. Maximum calculated value = 12.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1571.4	0.0	1571.4
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	6667.6	0.0	6667.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	8239.0	0.0	8239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	1.4
10°-20°	281.0	3.4
20°-30°	454.2	5.5
30°-40°	761.7	9.2
40°-50°	1174.1	14.3
50°-60°	1575.2	19.1
60°-70°	2098.4	25.5
70°-80°	1600.5	19.4
80°-90°	181.4	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°	8239.0	100.0
0°-180°	8239.0	100.0

Coefficient of Utilization



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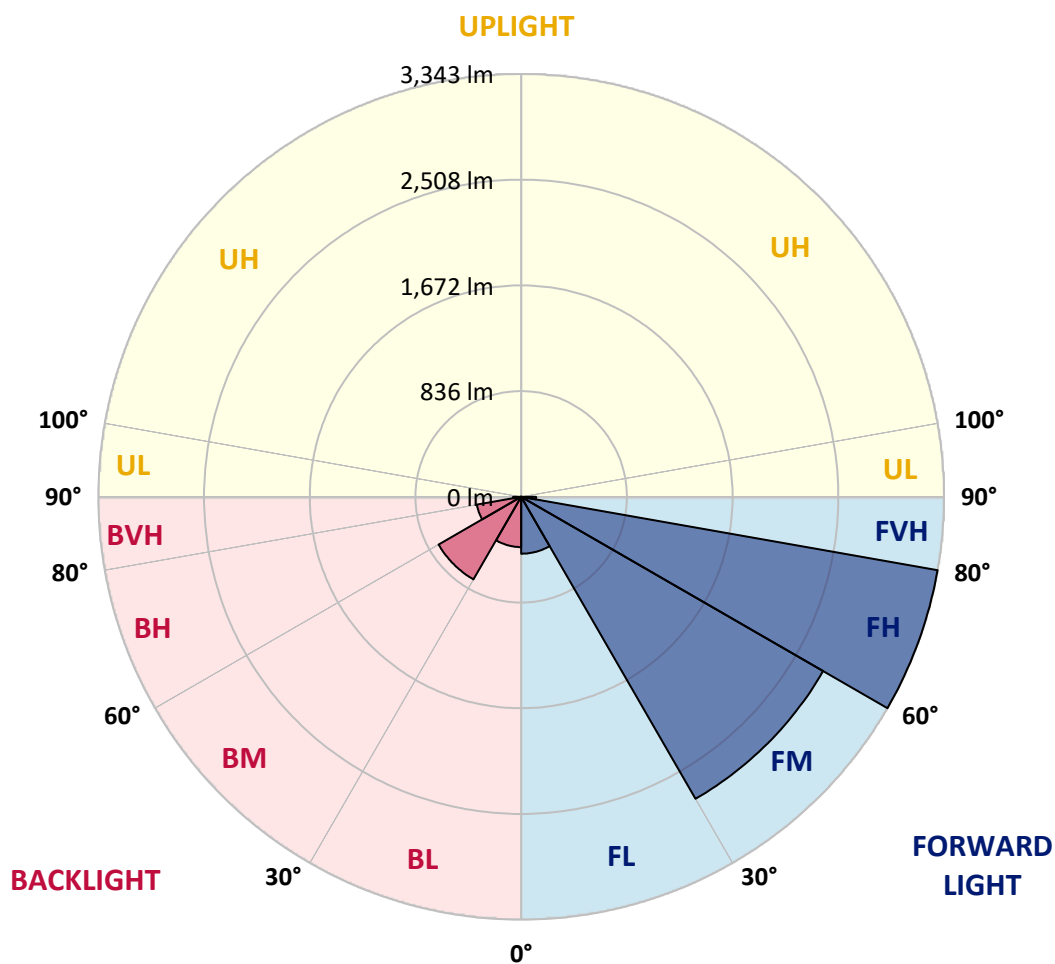
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	450.1	5.5			
FM	(30°-60°)	2756.8	33.5			
FH	(60°-80°)	3343.4	40.6			G2/5000
FVH	(80°-90°)	117.3	1.4			G2/225
BL	(0°-30°)	397.6	4.8	B1/500		
BM	(30°-60°)	754.1	9.2	B1/1000		
BH	(60°-80°)	355.5	4.3	B1/500		G1/500
BVH	(80°-90°)	64.2	0.8			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1243.5	1243.5	1243.5	1243.5	1243.5	1243.5	1243.5	1243.5	1243.5	1243.5	1243.5
2.5°	1194.5	1196.8	1194.1	1197.6	1203.6	1209.9	1214.2	1220.6	1227.7	1237.6	1240.0
5°	1138.3	1141.8	1141.8	1148.2	1159.6	1169.9	1179.4	1189.7	1204.7	1221.8	1228.5
7.5°	1076.6	1078.5	1082.1	1091.6	1108.2	1122.8	1136.3	1152.9	1173.5	1196.0	1207.9
10°	1002.2	1004.9	1010.5	1023.9	1046.5	1066.7	1086.1	1109.0	1135.1	1163.2	1178.2
12.5°	949.6	948.8	951.1	961.0	980.8	1005.3	1033.4	1062.7	1094.8	1127.6	1145.8
15°	931.8	927.4	918.3	915.9	926.6	951.1	983.6	1019.6	1058.0	1097.5	1120.1
17.5°	942.8	935.3	910.4	892.2	890.6	909.2	943.6	984.0	1028.3	1076.6	1104.6
20°	1012.5	994.7	933.3	891.0	876.4	885.5	915.5	958.3	1010.5	1074.6	1110.6
22.5°	1179.0	1152.9	1022.7	944.0	894.6	883.5	906.0	951.5	1012.5	1099.1	1145.0
25°	1421.6	1384.4	1176.3	1076.2	974.1	915.1	920.3	967.0	1040.6	1156.1	1211.5
27.5°	1613.1	1588.9	1376.9	1262.5	1118.9	1000.6	966.6	1005.7	1097.9	1249.5	1306.0
30°	1727.0	1712.4	1591.3	1473.8	1303.7	1136.7	1055.2	1078.5	1187.7	1378.8	1425.5
32.5°	1859.1	1850.4	1791.1	1683.1	1503.1	1315.5	1195.6	1187.3	1308.0	1534.3	1555.7
35°	1996.0	1993.3	1958.5	1880.9	1717.1	1551.3	1382.0	1325.8	1439.0	1695.7	1682.3
37.5°	2123.4	2118.7	2098.5	2053.4	1941.0	1804.5	1571.9	1467.9	1580.2	1850.0	1790.3
40°	2358.1	2320.9	2251.6	2217.6	2167.4	2017.8	1722.7	1600.4	1726.6	1997.2	1883.7
42.5°	2644.1	2583.6	2454.6	2407.9	2400.8	2186.0	1825.5	1729.0	1874.2	2143.2	1975.5
45°	2869.2	2812.3	2701.1	2642.1	2668.2	2338.3	1928.8	1866.3	2026.1	2296.3	2070.0
47.5°	3109.4	3020.0	2872.8	2890.6	2947.6	2482.3	2034.0	2013.8	2192.7	2467.7	2187.5
50°	3118.1	3049.7	2985.2	3091.6	3180.2	2614.8	2165.8	2168.5	2396.4	2683.3	2343.8
52.5°	2937.3	2922.7	3025.1	3192.5	3320.3	2719.7	2315.7	2328.4	2657.2	2931.0	2515.5
55°	2874.0	2857.4	2975.7	3157.3	3339.3	2806.3	2478.3	2501.3	2972.5	3192.1	2682.9
57.5°	3028.3	2991.5	2999.4	3140.7	3293.0	2901.3	2655.6	2701.9	3315.1	3420.4	2790.5
60°	3459.5	3380.8	3231.3	3227.7	3317.9	3043.7	2860.5	2917.1	3671.2	3529.6	2748.6
62.5°	4064.5	3985.8	3705.6	3523.2	3509.8	3278.7	3112.2	3127.2	3877.0	3381.6	2492.6
65°	4719.3	4648.9	4335.9	4078.3	3954.1	3668.1	3404.5	3221.0	3809.7	2974.5	2044.7
67.5°	5514.1	5438.6	5169.5	4931.7	4812.3	4296.3	3609.9	3131.2	3382.8	2304.3	1469.8
70°	6070.0	5992.9	5886.8	6079.5	6371.9	5202.8	3636.4	2766.0	2526.6	1531.6	884.7
72.5°	5344.8	5308.8	5502.3	6313.7	7531.6	5752.7	3287.0	2013.8	1467.5	813.1	512.0
73°	4896.9	4889.0	5219.0	6149.6	7539.9	5668.1	3133.9	1871.8	1258.6	719.3	468.1
75°	2211.3	2275.0	2998.2	4697.1	6550.7	4670.6	2205.7	1073.8	711.0	496.9	353.3
77.5°	531.4	553.5	938.1	2230.7	4136.9	2783.4	999.4	531.0	454.6	350.9	258.0
80°	226.3	233.8	361.2	824.1	1947.8	1120.9	460.5	355.7	314.5	244.9	180.8
82.5°	125.8	133.7	204.9	373.9	786.2	382.2	280.9	247.7	206.9	147.6	117.5
85°	71.2	75.6	119.9	208.9	333.1	153.5	168.2	164.6	116.7	76.0	57.8
87.5°	33.6	36.4	57.8	96.9	130.6	60.1	85.5	94.2	73.2	46.3	30.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1243.5	1243.5	1243.5	1243.5	1243.5	1243.5	1243.5	1243.5	1243.5	1243.5
2.5°	1242.7	1249.9	1258.2	1262.5	1266.5	1271.2	1276.0	1276.0	1276.8	1277.2
5°	1234.0	1248.7	1261.7	1267.3	1268.4	1268.4	1267.3	1260.9	1255.4	1257.8
7.5°	1215.8	1237.2	1248.3	1246.3	1231.3	1213.8	1199.2	1181.4	1172.3	1170.7
10°	1189.7	1214.2	1216.2	1196.4	1159.2	1122.1	1091.2	1061.1	1046.9	1043.3
12.5°	1160.8	1183.4	1170.7	1130.0	1070.2	1016.0	976.9	946.4	932.9	929.4
15°	1137.5	1152.9	1120.9	1056.8	981.6	924.2	891.8	869.2	859.7	857.0
17.5°	1125.2	1128.4	1069.8	983.2	903.3	855.4	835.2	824.5	821.0	819.0
20°	1131.2	1109.0	1021.2	914.7	839.2	805.5	800.8	798.0	797.2	796.0
22.5°	1160.8	1103.1	976.5	849.9	783.0	768.3	772.3	771.9	771.1	770.3
25°	1213.8	1108.2	932.9	788.1	735.9	732.7	739.9	739.9	736.7	736.7
27.5°	1283.9	1118.9	884.3	729.6	693.2	693.6	699.1	697.5	694.0	691.6
30°	1369.3	1125.6	827.3	677.0	653.2	651.6	653.2	646.5	635.8	635.0
32.5°	1456.8	1117.3	761.2	630.3	610.9	607.3	606.1	596.6	584.4	580.8
35°	1535.9	1086.8	694.0	593.1	570.5	562.6	568.2	565.0	553.9	551.1
37.5°	1593.7	1030.3	633.4	560.2	541.6	539.7	543.2	544.4	531.4	528.6
40°	1632.4	953.5	581.6	532.5	536.1	528.6	516.7	508.4	504.5	503.3
42.5°	1663.7	873.6	538.1	519.5	537.3	515.5	489.8	476.4	483.5	486.6
45°	1699.7	795.6	501.7	503.3	531.4	500.5	471.2	458.2	460.9	461.7
47.5°	1749.2	700.7	462.5	477.2	511.6	490.2	459.7	441.1	428.1	422.2
50°	1817.6	588.3	421.8	447.9	492.2	482.7	441.9	422.2	398.0	392.5
52.5°	1865.1	483.5	388.1	423.3	474.8	467.7	427.7	402.0	376.7	371.9
55°	1839.4	401.6	358.9	396.0	451.8	449.1	415.8	381.4	361.6	357.7
57.5°	1710.8	349.8	336.3	370.3	423.7	433.2	400.0	364.0	349.8	347.0
60°	1465.5	317.3	322.1	352.9	400.8	417.4	384.2	354.5	345.0	343.0
62.5°	1137.1	295.5	311.4	340.3	383.0	406.3	375.5	353.3	349.8	347.4
65°	814.6	278.1	299.9	327.6	366.8	396.0	372.3	351.7	352.5	350.5
67.5°	553.5	262.7	286.1	313.4	350.9	386.9	368.0	346.2	356.1	353.7
70°	387.3	247.7	269.8	295.2	331.2	374.3	360.0	337.9	337.1	327.6
72.5°	302.3	227.9	247.7	269.8	305.8	356.5	344.2	319.3	306.2	296.3
73°	288.4	223.1	242.1	264.3	300.3	352.1	339.9	314.1	299.5	290.4
75°	238.6	202.6	220.0	239.8	276.6	331.6	318.5	290.8	272.2	266.7
77.5°	187.5	173.3	189.9	207.7	243.7	301.5	286.8	260.3	250.0	245.3
80°	138.9	143.6	158.3	174.1	211.3	269.4	256.4	229.9	275.8	264.3
82.5°	97.7	108.8	122.3	136.5	177.3	238.2	222.4	195.1	201.8	167.8
85°	57.8	71.2	83.9	96.1	127.8	197.4	183.6	155.5	127.4	121.5
87.5°	33.6	39.6	43.1	55.8	87.8	148.8	129.4	115.1	66.1	44.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)