

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: P200689

Luminaire Tested: **GWC-AF-01-LED-E1-T4FT-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200689
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-01-LED-E1-T4FT-8030-1200
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5725 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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



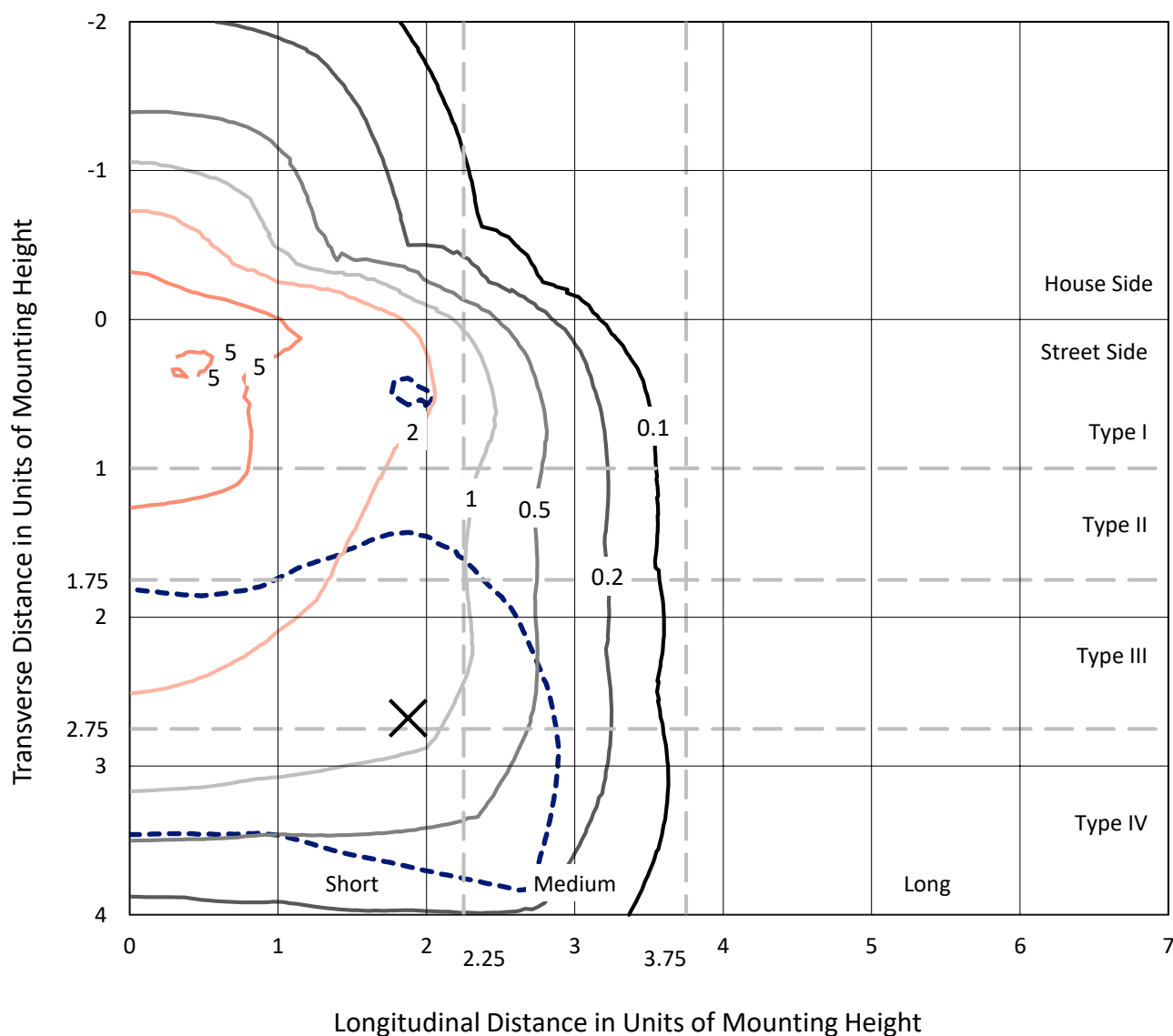
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

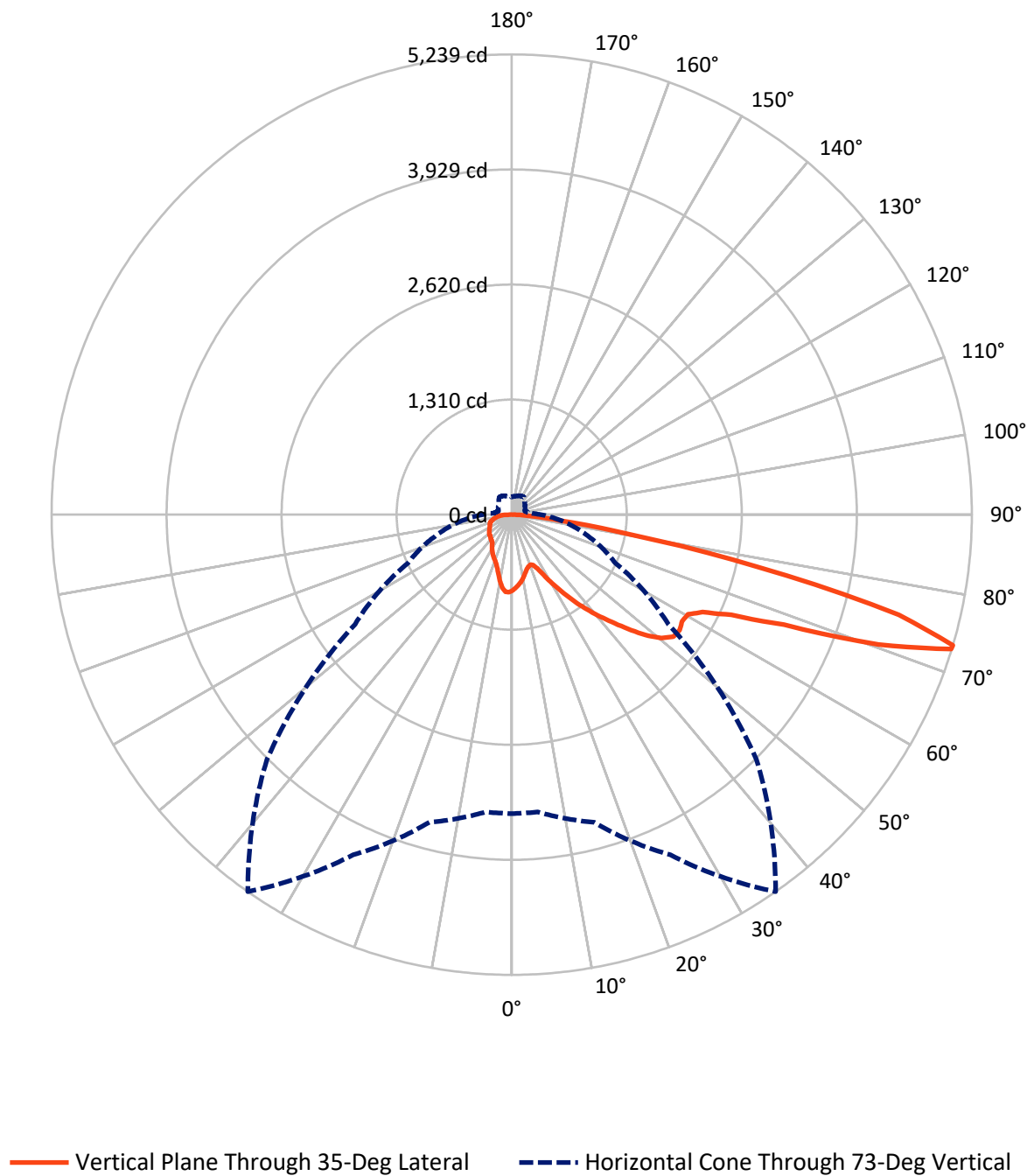


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1091.9	0.0	1091.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	4633.1	0.0	4633.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	5725.0	0.0	5725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	1.4
10°-20°	195.2	3.4
20°-30°	315.6	5.5
30°-40°	529.3	9.2
40°-50°	815.8	14.3
50°-60°	1094.5	19.1
60°-70°	1458.1	25.5
70°-80°	1112.1	19.4
80°-90°	126.1	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°	5725.0	100.0
0°-180°	5725.0	100.0

Coefficient of Utilization



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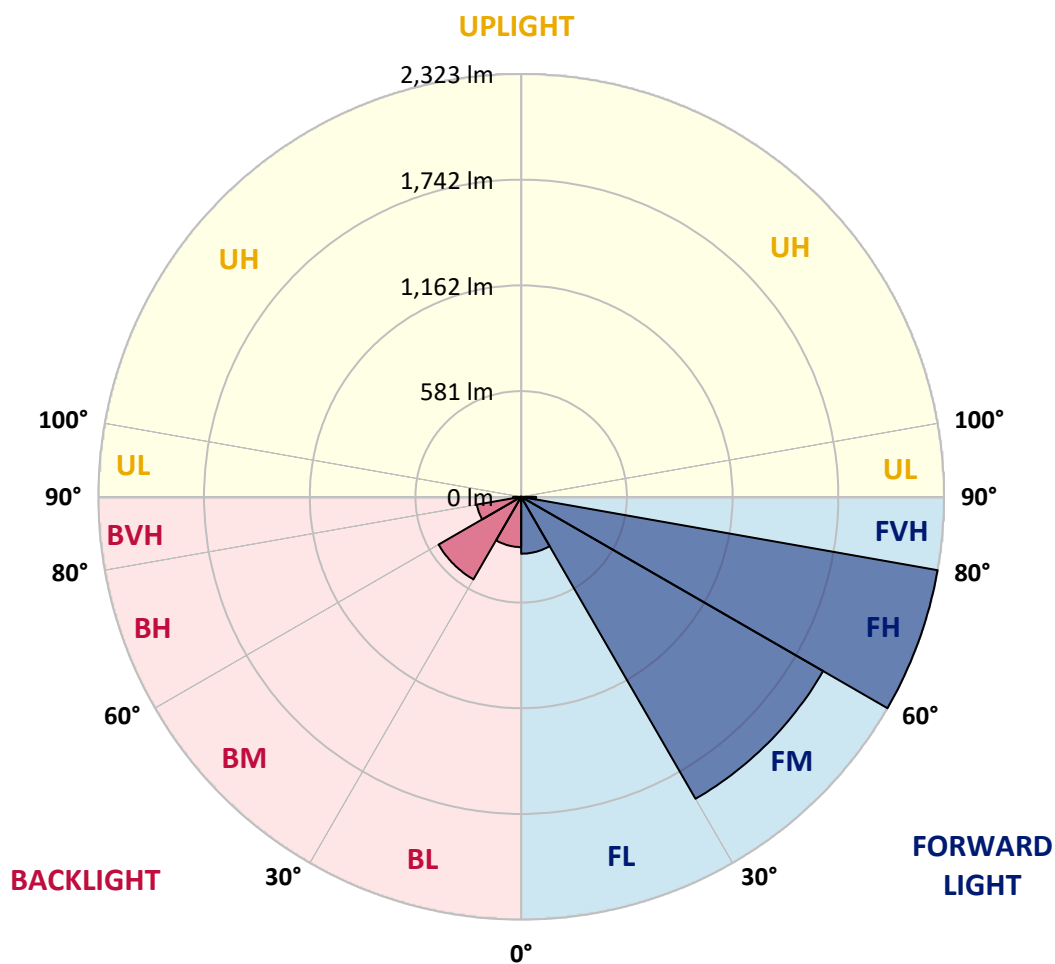
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	312.8	5.5			
FM	(30°-60°)	1915.6	33.5			
FH	(60°-80°)	2323.2	40.6			G2/5000
FVH	(80°-90°)	81.5	1.4			G1/100
BL	(0°-30°)	276.3	4.8	B1/500		
BM	(30°-60°)	524.0	9.2	B1/1000		
BH	(60°-80°)	247.0	4.3	B1/500		G1/500
BVH	(80°-90°)	44.6	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°	864.1	864.1	864.1	864.1	864.1	864.1	864.1	864.1	864.1	864.1	864.1
2.5°	830.0	831.6	829.7	832.2	836.3	840.7	843.7	848.1	853.1	860.0	861.6
5°	791.0	793.4	793.4	797.8	805.8	812.9	819.5	826.7	837.1	849.0	853.6
7.5°	748.1	749.4	751.9	758.5	770.1	780.2	789.6	801.1	815.4	831.1	839.3
10°	696.4	698.3	702.2	711.5	727.2	741.2	754.7	770.6	788.8	808.3	818.7
12.5°	659.8	659.3	660.9	667.8	681.5	698.6	718.1	738.4	760.7	783.5	796.2
15°	647.4	644.4	638.1	636.4	643.9	660.9	683.5	708.5	735.1	762.6	778.3
17.5°	655.1	649.9	632.6	619.9	618.8	631.8	655.7	683.7	714.5	748.1	767.6
20°	703.5	691.2	648.5	619.1	609.0	615.3	636.2	665.9	702.2	746.7	771.7
22.5°	819.3	801.1	710.7	656.0	621.6	613.9	629.6	661.2	703.5	763.7	795.6
25°	987.8	962.0	817.3	747.8	676.9	635.9	639.5	671.9	723.0	803.3	841.8
27.5°	1120.9	1104.1	956.7	877.3	777.5	695.3	671.6	698.9	762.9	868.2	907.5
30°	1200.0	1189.9	1105.7	1024.1	905.9	789.9	733.2	749.4	825.3	958.1	990.5
32.5°	1291.9	1285.8	1244.6	1169.5	1044.4	914.1	830.8	825.0	908.9	1066.1	1081.0
35°	1387.0	1385.1	1360.9	1307.0	1193.2	1078.0	960.3	921.3	999.9	1178.3	1169.0
37.5°	1475.5	1472.2	1458.2	1426.8	1348.8	1253.9	1092.3	1020.0	1098.0	1285.5	1244.0
40°	1638.5	1612.7	1564.6	1540.9	1506.0	1402.1	1197.0	1112.1	1199.8	1387.8	1308.9
42.5°	1837.3	1795.2	1705.6	1673.2	1668.2	1518.9	1268.5	1201.4	1302.3	1489.3	1372.7
45°	1993.7	1954.1	1876.9	1835.9	1854.1	1624.8	1340.2	1296.8	1407.9	1595.6	1438.4
47.5°	2160.6	2098.5	1996.2	2008.6	2048.2	1724.9	1413.4	1399.4	1523.6	1714.7	1520.0
50°	2166.7	2119.1	2074.3	2148.2	2209.8	1817.0	1504.9	1506.8	1665.2	1864.5	1628.6
52.5°	2041.0	2030.8	2102.1	2218.3	2307.1	1889.8	1609.1	1617.9	1846.4	2036.6	1748.0
55°	1997.0	1985.5	2067.7	2193.9	2320.3	1950.0	1722.1	1738.1	2065.5	2218.1	1864.2
57.5°	2104.3	2078.7	2084.2	2182.3	2288.2	2016.0	1845.3	1877.4	2303.6	2376.7	1939.0
60°	2403.9	2349.2	2245.3	2242.8	2305.5	2115.0	1987.7	2027.0	2551.0	2452.6	1909.9
62.5°	2824.3	2769.6	2574.9	2448.2	2438.8	2278.3	2162.5	2173.0	2694.0	2349.8	1732.0
65°	3279.3	3230.3	3012.9	2833.9	2747.6	2548.8	2365.7	2238.1	2647.2	2066.9	1420.8
67.5°	3831.6	3779.1	3592.1	3426.9	3343.9	2985.4	2508.4	2175.7	2350.6	1601.1	1021.3
70°	4217.9	4164.2	4090.6	4224.5	4427.6	3615.2	2526.8	1922.0	1755.7	1064.2	614.7
72.5°	3713.9	3688.9	3823.3	4387.2	5233.4	3997.4	2284.1	1399.4	1019.7	565.0	355.7
73°	3402.7	3397.2	3626.5	4273.1	5239.2	3938.5	2177.7	1300.7	874.5	499.8	325.2
75°	1536.5	1580.8	2083.4	3263.9	4551.9	3245.5	1532.7	746.1	494.0	345.3	245.5
77.5°	369.2	384.6	651.8	1550.0	2874.6	1934.1	694.5	368.9	315.9	243.9	179.2
80°	157.3	162.5	251.0	572.7	1353.4	778.9	320.0	247.2	218.6	170.2	125.6
82.5°	87.4	92.9	142.4	259.8	546.3	265.6	195.2	172.1	143.8	102.5	81.7
85°	49.5	52.5	83.3	145.2	231.5	106.7	116.8	114.4	81.1	52.8	40.1
87.5°	23.4	25.3	40.1	67.4	90.7	41.8	59.4	65.4	50.9	32.2	20.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	864.1	864.1	864.1	864.1	864.1	864.1	864.1	864.1	864.1	864.1
2.5°	863.5	868.5	874.3	877.3	880.0	883.3	886.6	886.6	887.2	887.4
5°	857.5	867.7	876.7	880.6	881.4	881.4	880.6	876.2	872.3	874.0
7.5°	844.8	859.7	867.4	866.0	855.6	843.5	833.3	820.9	814.6	813.5
10°	826.7	843.7	845.1	831.4	805.5	779.7	758.2	737.3	727.4	725.0
12.5°	806.6	822.3	813.5	785.2	743.7	706.0	678.8	657.6	648.3	645.8
15°	790.4	801.1	778.9	734.3	682.1	642.2	619.7	604.0	597.4	595.5
17.5°	781.9	784.1	743.4	683.2	627.6	594.4	580.4	572.9	570.5	569.1
20°	786.0	770.6	709.6	635.6	583.1	559.7	556.4	554.5	554.0	553.1
22.5°	806.6	766.5	678.5	590.5	544.1	533.9	536.6	536.4	535.8	535.3
25°	843.5	770.1	648.3	547.6	511.4	509.2	514.1	514.1	511.9	511.9
27.5°	892.1	777.5	614.5	507.0	481.7	481.9	485.8	484.7	482.2	480.6
30°	951.5	782.2	574.9	470.4	453.9	452.8	453.9	449.2	441.8	441.3
32.5°	1012.3	776.4	529.0	438.0	424.5	422.0	421.2	414.6	406.1	403.6
35°	1067.2	755.2	482.2	412.1	396.4	390.9	394.8	392.6	384.9	383.0
37.5°	1107.4	715.9	440.2	389.3	376.4	375.0	377.5	378.3	369.2	367.3
40°	1134.3	662.6	404.1	370.0	372.5	367.3	359.0	353.3	350.5	349.7
42.5°	1156.0	607.0	373.9	361.0	373.3	358.2	340.4	331.0	336.0	338.2
45°	1181.1	552.9	348.6	349.7	369.2	347.8	327.4	318.4	320.3	320.8
47.5°	1215.4	486.9	321.4	331.6	355.5	340.6	319.5	306.5	297.5	293.3
50°	1263.0	408.8	293.1	311.2	342.0	335.4	307.1	293.3	276.6	272.7
52.5°	1296.0	336.0	269.7	294.2	329.9	325.0	297.2	279.3	261.7	258.4
55°	1278.1	279.0	249.4	275.2	314.0	312.0	288.9	265.0	251.3	248.5
57.5°	1188.8	243.0	233.7	257.3	294.4	301.0	277.9	252.9	243.0	241.1
60°	1018.3	220.5	223.8	245.2	278.5	290.0	266.9	246.3	239.7	238.4
62.5°	790.1	205.4	216.4	236.4	266.1	282.3	260.9	245.5	243.0	241.4
65°	566.1	193.3	208.4	227.6	254.9	275.2	258.7	244.4	245.0	243.6
67.5°	384.6	182.5	198.8	217.7	243.9	268.9	255.7	240.6	247.4	245.8
70°	269.1	172.1	187.5	205.1	230.1	260.1	250.2	234.8	234.2	227.6
72.5°	210.0	158.4	172.1	187.5	212.5	247.7	239.2	221.9	212.8	205.9
73°	200.4	155.1	168.3	183.6	208.7	244.7	236.2	218.3	208.1	201.8
75°	165.8	140.8	152.9	166.6	192.2	230.4	221.3	202.1	189.1	185.3
77.5°	130.3	120.4	132.0	144.3	169.4	209.5	199.3	180.9	173.8	170.5
80°	96.5	99.8	110.0	121.0	146.8	187.2	178.1	159.7	191.6	183.6
82.5°	67.9	75.6	85.0	94.8	123.2	165.5	154.5	135.5	140.2	116.6
85°	40.1	49.5	58.3	66.8	88.8	137.2	127.6	108.0	88.5	84.4
87.5°	23.4	27.5	30.0	38.8	61.0	103.4	89.9	80.0	45.9	31.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)