

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: P194099

Luminaire Tested: **GLEON-AF-01-LED-E1-T4W-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194099
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: GLEON-AF-01-LED-E1-T4W-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4080 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

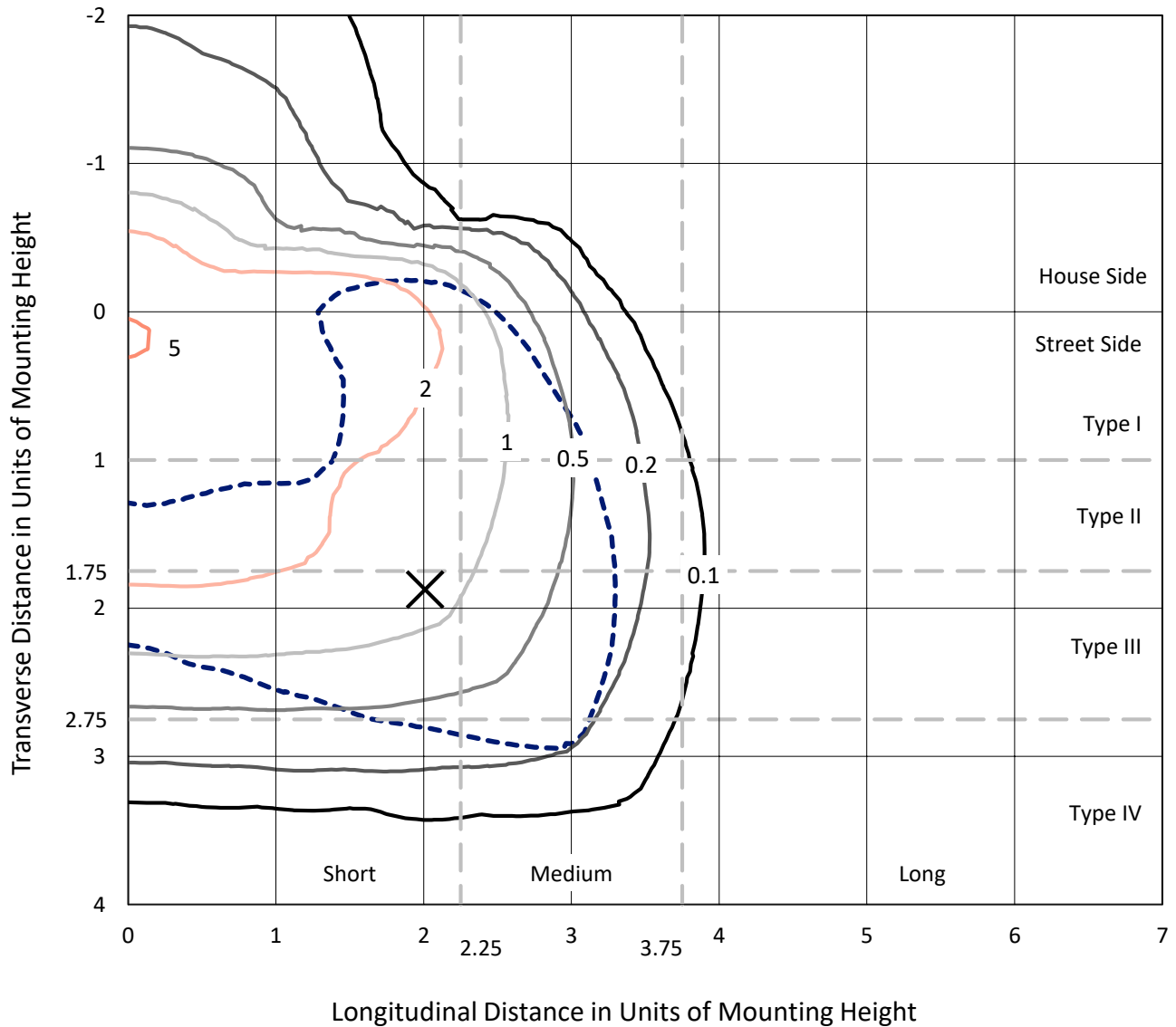


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

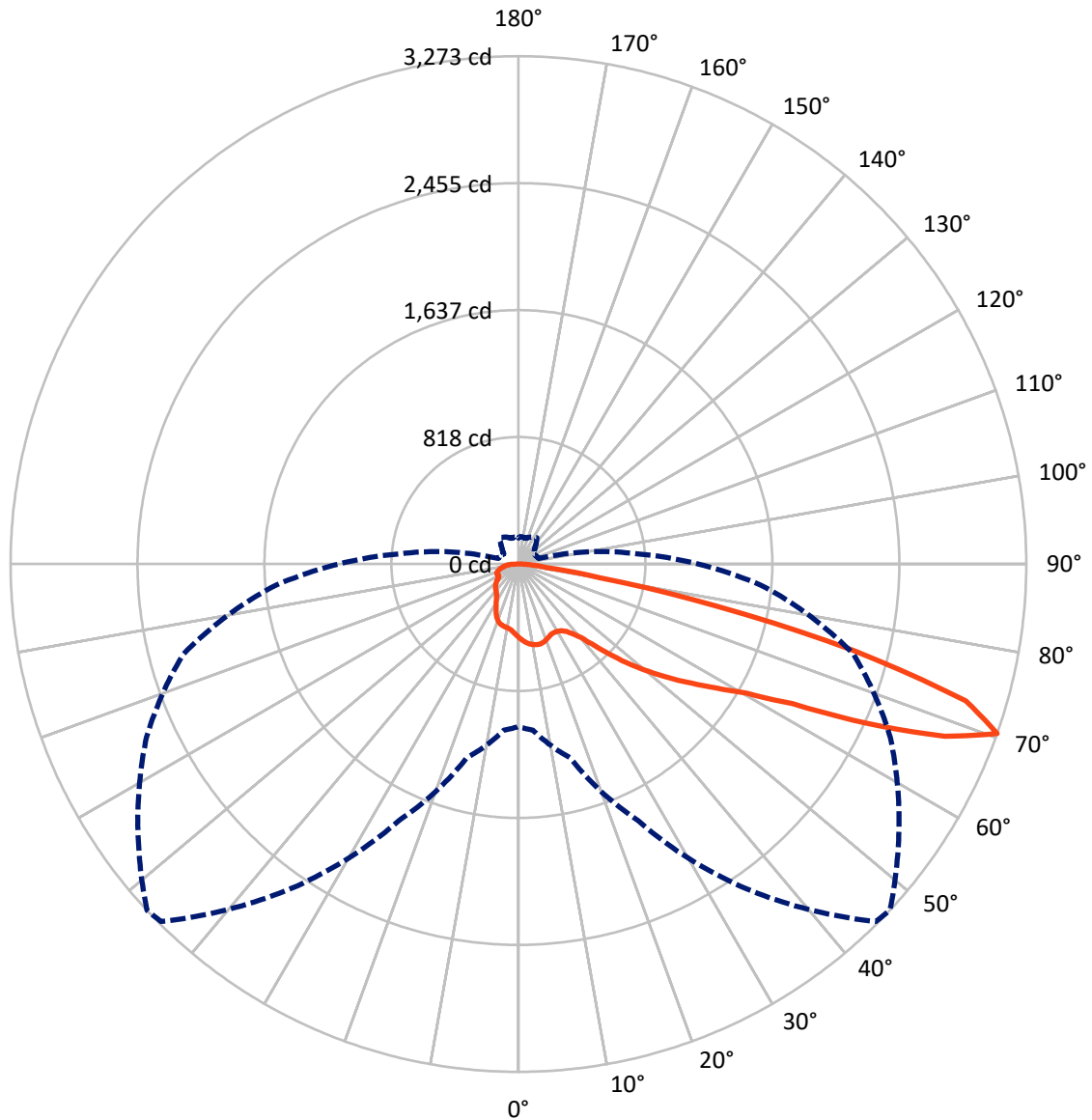


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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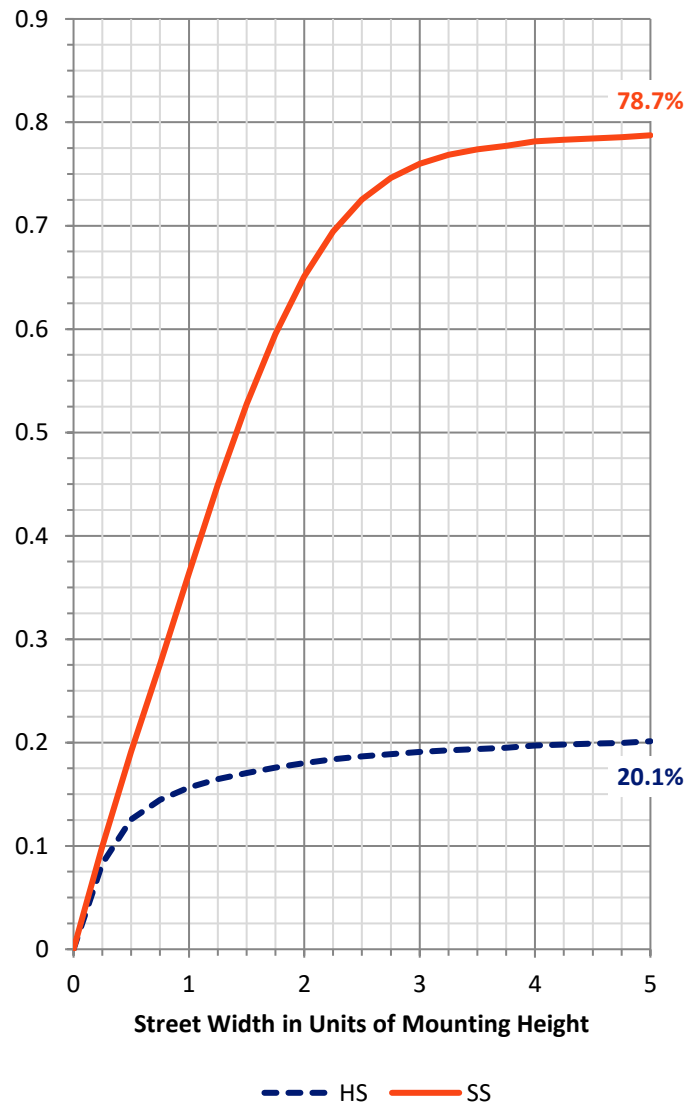
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	851.2	0.0	851.2
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	3228.8	0.0	3228.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	4080.0	0.0	4080.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	1.1
10°-20°	133.1	3.3
20°-30°	196.5	4.8
30°-40°	285.6	7.0
40°-50°	514.0	12.6
50°-60°	890.5	21.8
60°-70°	1271.0	31.2
70°-80°	652.5	16.0
80°-90°	91.3	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°	4080.0	100.0
0°-180°	4080.0	100.0



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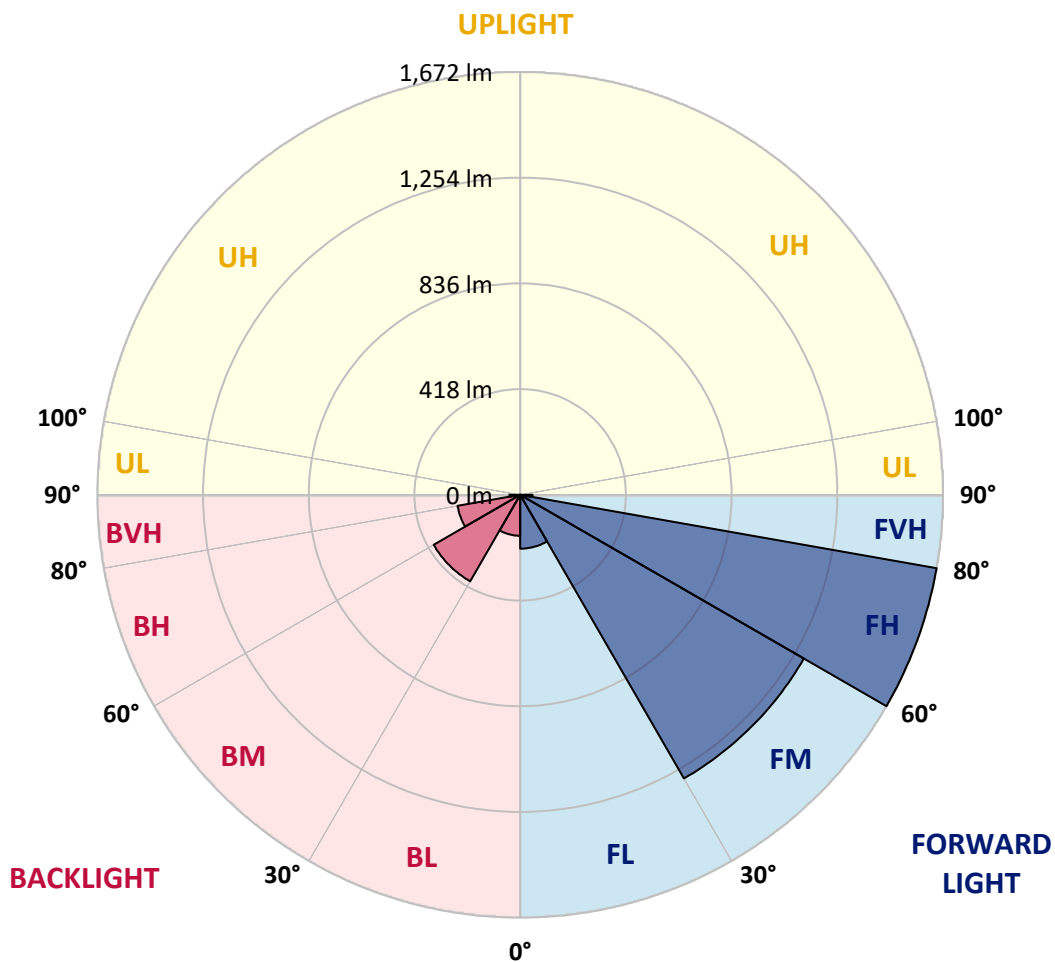
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	212.9	5.2			
FM	(30°-60°)	1295.1	31.7			
FH	(60°-80°)	1672.1	41.0			G1/1800
FVH	(80°-90°)	48.7	1.2			G1/100
BL	(0°-30°)	162.1	4.0	B1/500		
BM	(30°-60°)	395.1	9.7	B1/1000		
BH	(60°-80°)	251.4	6.2	B1/500		G1/500
BVH	(80°-90°)	42.6	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4
2.5°	501.2	500.2	499.8	499.0	498.0	493.1	492.1	488.5	483.5	478.4	473.0
5°	534.1	533.9	531.8	527.8	521.4	510.5	507.9	499.2	487.5	476.2	464.9
7.5°	563.1	561.3	557.2	549.2	538.1	523.2	519.7	507.5	491.5	476.0	460.7
10°	584.4	583.4	574.2	563.3	548.8	532.4	528.2	514.7	497.0	477.4	458.3
12.5°	596.5	594.5	584.0	570.9	553.6	537.5	533.4	519.7	499.8	477.4	454.9
15°	595.7	594.3	583.8	569.5	552.0	537.9	534.1	520.4	499.2	475.4	450.6
17.5°	579.8	580.4	571.5	557.4	543.1	532.4	529.0	516.3	495.2	471.4	445.4
20°	552.0	554.8	548.8	536.3	528.4	521.0	518.9	508.1	489.1	465.7	439.9
22.5°	524.2	526.8	524.4	513.9	512.7	508.3	507.2	499.4	483.7	462.1	436.5
25°	503.8	506.2	505.8	496.6	500.2	500.0	499.0	495.2	482.5	462.1	437.1
27.5°	498.2	499.0	498.2	489.9	494.8	498.8	498.0	497.4	486.1	467.8	444.6
30°	517.3	516.1	509.9	493.1	497.6	503.2	502.4	502.8	496.8	482.9	461.5
32.5°	593.3	587.9	568.5	521.0	508.9	511.9	512.3	518.9	519.9	506.2	487.7
35°	707.0	701.1	675.9	596.1	544.1	533.7	533.7	543.7	549.6	539.5	528.4
37.5°	827.5	821.0	807.5	700.1	617.9	571.7	570.7	577.6	586.2	588.5	591.3
40°	964.5	957.5	961.3	816.8	720.9	637.4	623.3	618.3	641.3	656.6	678.8
42.5°	1114.3	1111.2	1112.6	946.8	838.2	735.6	715.6	690.0	717.8	744.9	791.6
45°	1253.1	1255.9	1254.5	1086.0	968.8	855.5	834.3	784.6	811.8	858.5	934.5
47.5°	1374.6	1363.1	1380.9	1238.0	1115.1	989.7	963.5	897.0	924.6	982.1	1110.8
50°	1522.0	1520.5	1494.3	1440.9	1292.0	1124.5	1090.1	1013.1	1056.0	1136.0	1332.9
52.5°	1677.1	1648.3	1624.3	1598.7	1479.6	1262.6	1220.5	1128.8	1210.4	1311.0	1603.6
55°	1708.8	1695.9	1725.7	1768.8	1660.4	1406.1	1357.1	1273.9	1384.3	1511.1	1915.9
57.5°	1776.7	1776.5	1838.0	1914.9	1846.6	1558.4	1508.9	1449.2	1579.8	1740.4	2247.3
60°	1822.6	1835.5	1949.8	2098.9	2029.4	1734.2	1688.8	1651.5	1802.1	1996.6	2556.2
62.5°	1846.6	1864.1	2020.1	2173.5	2287.8	2027.0	1981.6	1927.8	2096.3	2277.7	2736.8
65°	1746.7	1781.1	2009.2	2238.0	2514.1	2501.6	2481.2	2386.7	2464.1	2499.8	2671.5
67.5°	1470.4	1505.6	1771.2	2177.9	2675.7	2959.3	2963.7	2802.3	2690.4	2518.9	2246.2
70°	1047.6	1075.2	1295.0	1825.9	2552.6	3258.5	3273.4	2993.9	2645.3	2233.8	1569.3
72.5°	497.4	514.3	722.3	1188.4	2025.6	2985.5	3014.3	2749.3	2249.3	1653.8	856.1
75°	182.8	188.0	244.1	505.6	1174.9	2201.7	2235.6	1970.8	1491.1	823.4	326.1
77.5°	109.6	112.9	137.0	213.4	462.1	1258.4	1308.7	1071.9	651.7	306.5	160.4
80°	76.6	79.0	98.3	132.8	218.3	479.6	524.2	437.5	259.6	193.9	116.7
82.5°	51.8	53.0	69.1	89.7	145.1	171.3	184.8	194.5	175.1	144.3	74.0
85°	33.9	35.1	46.8	59.2	92.3	88.5	90.5	114.5	127.8	98.1	41.1
87.5°	19.5	20.2	28.2	31.6	45.3	37.5	37.9	60.3	81.8	66.1	25.0
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°	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4
2.5°	471.6	469.0	463.3	459.7	456.3	455.5	454.2	454.0	453.8	453.8	453.2
5°	461.1	456.7	447.8	442.8	438.7	438.3	438.1	439.1	439.5	439.9	439.3
7.5°	454.4	448.4	437.3	430.1	425.2	424.0	426.0	430.5	433.5	434.7	434.1
10°	450.2	442.8	429.9	422.2	418.0	417.4	420.0	425.4	431.5	433.9	433.7
12.5°	445.4	437.1	423.4	415.2	412.9	414.1	417.4	422.4	428.7	432.5	432.7
15°	440.7	430.9	416.8	409.7	408.7	410.3	413.5	417.2	422.2	426.0	426.4
17.5°	434.9	424.8	410.7	403.3	402.5	403.3	403.5	405.5	408.7	412.3	413.3
20°	428.7	418.4	403.7	396.4	392.8	389.6	386.1	386.5	387.5	391.0	391.8
22.5°	424.4	414.1	398.4	388.3	378.7	369.2	362.1	361.1	361.5	364.4	365.4
25°	424.8	413.9	397.0	379.5	358.7	343.4	333.9	332.3	332.1	334.3	335.7
27.5°	432.5	421.6	402.1	370.6	336.8	314.2	304.1	302.9	301.3	301.9	303.5
30°	449.8	439.7	414.7	361.5	313.2	285.6	275.1	273.9	271.7	270.7	271.9
32.5°	478.0	469.6	432.9	352.7	289.6	261.2	250.5	247.9	246.5	245.3	246.3
35°	524.8	521.2	457.3	343.2	268.8	242.4	232.6	228.7	226.7	228.9	230.5
37.5°	598.3	600.2	489.3	328.3	252.7	229.9	221.7	217.2	214.2	216.0	217.7
40°	702.3	703.7	524.6	307.3	238.8	222.5	213.8	209.6	205.4	202.3	202.1
42.5°	838.8	824.7	559.4	284.4	222.7	217.9	208.2	203.1	196.7	188.0	186.2
45°	1000.8	951.4	585.8	258.2	204.6	212.4	202.1	194.9	185.0	175.5	174.5
47.5°	1187.4	1087.3	598.7	231.0	187.8	204.2	194.5	183.2	170.7	165.9	165.3
50°	1415.3	1248.7	604.8	204.6	173.1	193.5	183.6	170.3	159.8	158.8	158.2
52.5°	1674.7	1442.8	606.8	183.0	161.0	179.6	174.7	161.8	153.4	154.2	154.2
55°	1946.2	1643.3	579.8	167.3	149.9	165.3	168.7	158.4	151.5	154.6	155.8
57.5°	2195.5	1821.0	494.8	155.2	139.3	154.4	166.5	161.6	156.8	169.7	170.5
60°	2386.9	1926.0	369.6	144.3	131.6	150.7	172.3	173.7	174.9	205.6	209.8
62.5°	2427.0	1891.0	254.1	135.8	128.0	153.8	182.8	183.0	181.6	203.1	205.6
65°	2243.0	1670.1	184.8	131.0	125.1	159.6	191.7	187.6	178.4	194.7	190.0
67.5°	1781.3	1258.3	153.8	127.4	120.7	159.2	201.3	191.7	176.7	190.8	183.0
70°	1156.2	760.8	137.0	124.5	115.5	151.6	206.8	191.3	171.5	177.5	168.3
72.5°	564.1	340.2	125.6	120.1	110.2	141.1	206.6	187.8	166.1	165.7	160.8
75°	220.7	155.8	115.3	113.5	101.0	129.2	201.1	182.6	159.8	153.4	151.6
77.5°	129.2	111.2	102.2	103.8	90.1	117.3	192.9	173.7	151.1	143.5	141.5
80°	94.1	83.2	87.1	89.7	77.0	105.4	182.0	162.8	141.3	145.1	142.3
82.5°	60.3	53.6	70.7	73.2	64.1	93.3	170.1	151.3	127.6	115.9	113.1
85°	30.8	33.9	52.6	55.8	49.4	76.6	155.6	136.0	112.1	96.5	98.1
87.5°	17.3	23.2	33.5	37.5	34.9	59.0	126.2	112.1	91.5	74.4	65.5
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)