

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: P595177

Luminaire Tested: **IST-PA1C-830-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1C-830-U-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5258 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

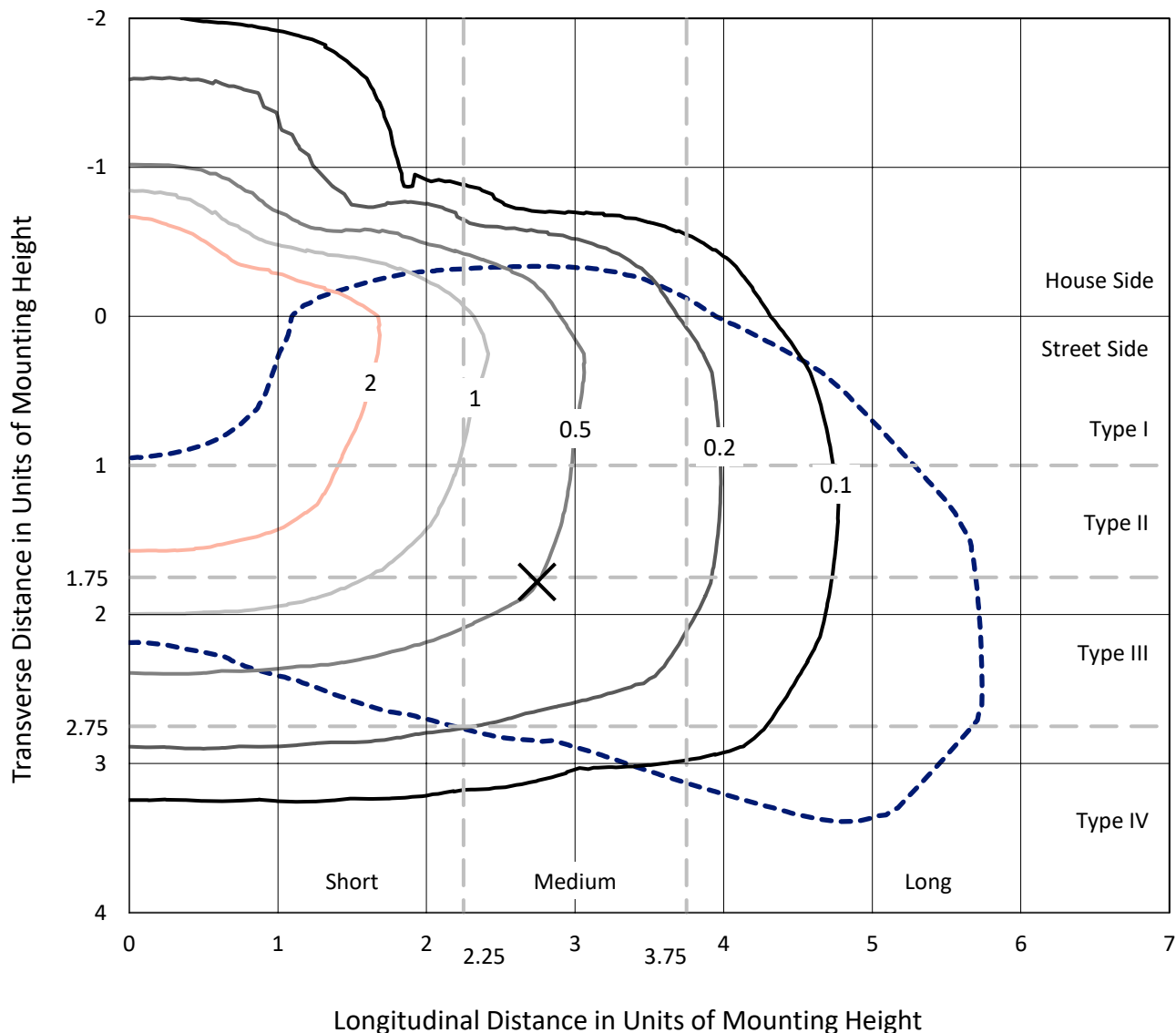
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P595177
 CATALOG NUMBER: IST-PA1C-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

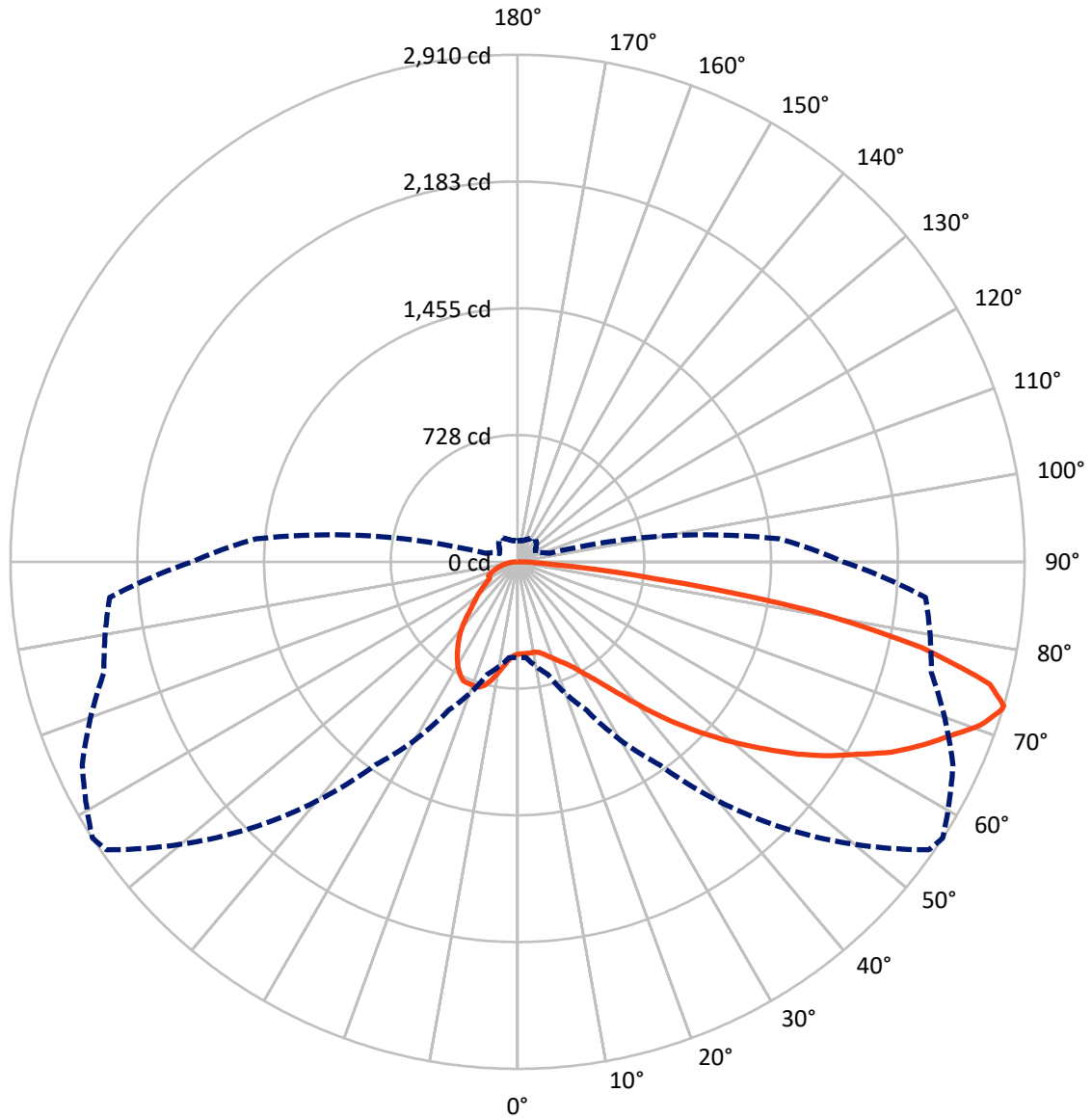
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Medium - N/A

REPORT NUMBER: P595177
CATALOG NUMBER: IST-PA1C-830-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P595177
 CATALOG NUMBER: IST-PA1C-830-U-T3

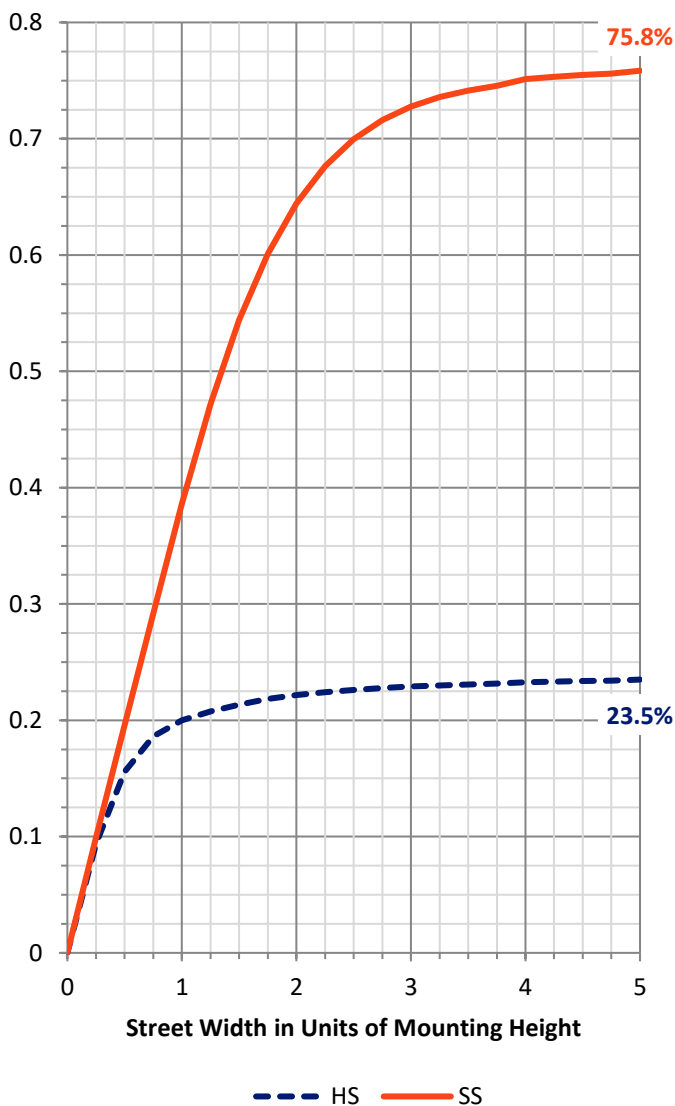
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1254.4	0.0	1254.4
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	4003.6	0.0	4003.6
	% Fixture	76.1	0.0	76.1
Total	Lumens	5258.0	0.0	5258.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	1.0
10°-20°	174.0	3.3
20°-30°	321.1	6.1
30°-40°	495.9	9.4
40°-50°	746.4	14.2
50°-60°	1092.4	20.8
60°-70°	1290.0	24.5
70°-80°	923.6	17.6
80°-90°	161.8	3.1
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°	5258.0	100.0
0°-180°	5258.0	100.0

Coefficient of Utilization

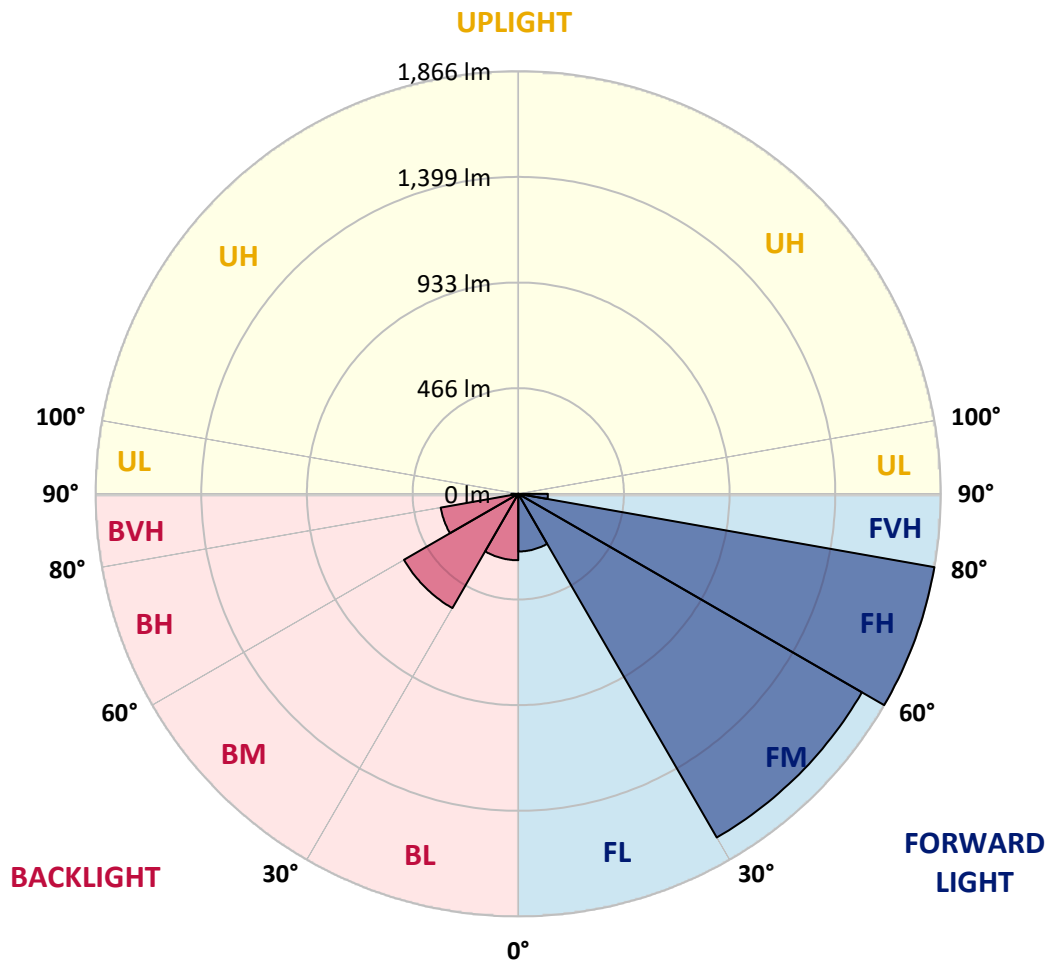


REPORT NUMBER: P595177
 CATALOG NUMBER: IST-PA1C-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	254.8	4.8			
FM (30°-60°)	1752.1	33.3			
FH (60°-80°)	1865.8	35.5			G2/5000
FVH (80°-90°)	130.9	2.5			G2/225
BL (0°-30°)	293.2	5.6	B1/500		
BM (30°-60°)	582.5	11.1	B1/1000		
BH (60°-80°)	347.8	6.6	B1/500		G1/500
BVH (80°-90°)	30.9	0.6			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 Medium





REPORT NUMBER: P595177

CATALOG NUMBER: IST-PA1C-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7
2.5°	523.3	525.9	524.6	525.9	529.7	527.2	527.2	528.5	529.7	528.5	531.0
5°	501.4	502.7	505.3	510.4	519.4	522.0	528.5	528.5	531.0	533.6	537.5
7.5°	465.3	467.9	473.0	478.2	493.7	509.1	525.9	528.5	537.5	543.9	546.5
10°	458.9	461.4	462.7	470.5	485.9	501.4	522.0	527.2	543.9	554.2	565.8
12.5°	452.4	455.0	458.9	469.2	488.5	505.3	527.2	532.3	552.9	573.6	587.7
15°	457.6	458.9	462.7	473.0	492.4	515.6	543.9	547.8	571.0	596.8	618.7
17.5°	470.5	471.7	470.5	479.5	497.5	524.6	563.3	569.7	598.1	623.8	645.7
20°	500.1	501.4	496.2	496.2	509.1	536.2	583.9	592.9	627.7	656.1	678.0
22.5°	564.5	562.0	549.1	532.3	532.3	554.2	607.1	620.0	663.8	687.0	706.3
25°	656.1	656.1	635.4	604.5	583.9	581.3	634.1	648.3	699.9	728.2	739.8
27.5°	766.9	768.2	734.7	693.4	653.5	634.1	672.8	687.0	745.0	774.6	778.5
30°	864.9	866.2	832.6	794.0	745.0	702.5	724.4	739.8	806.9	830.1	817.2
32.5°	962.8	964.1	940.9	888.1	836.5	783.7	790.1	799.1	867.4	889.4	868.7
35°	1047.9	1051.8	1028.6	988.6	934.5	886.8	875.2	876.5	938.3	952.5	925.4
37.5°	1134.2	1134.2	1120.1	1082.7	1036.3	983.4	968.0	971.8	1027.3	1041.4	1002.8
40°	1243.8	1249.0	1241.2	1194.8	1142.0	1098.2	1082.7	1087.8	1148.4	1140.7	1099.4
42.5°	1376.6	1388.2	1375.3	1325.0	1268.3	1219.3	1219.3	1219.3	1270.9	1272.2	1210.3
45°	1546.7	1546.7	1533.8	1490.0	1415.2	1366.3	1349.5	1353.4	1398.5	1403.6	1331.5
47.5°	1688.5	1701.4	1687.2	1655.0	1595.7	1549.3	1496.4	1490.0	1527.4	1527.4	1465.5
50°	1803.2	1826.4	1814.8	1829.0	1786.4	1763.2	1655.0	1636.9	1649.8	1662.7	1594.4
52.5°	1898.6	1916.6	1912.8	1954.0	1974.6	1987.5	1816.1	1787.7	1798.0	1796.8	1734.9
55°	1905.0	1911.5	1969.5	2062.3	2143.5	2204.1	1978.5	1947.6	1937.2	1932.1	1884.4
57.5°	1867.6	1871.5	1987.5	2097.1	2273.7	2343.3	2131.9	2100.9	2086.8	2068.7	2049.4
60°	1777.4	1796.8	1948.8	2117.7	2351.0	2451.5	2274.9	2242.7	2232.4	2193.7	2237.6
62.5°	1662.7	1671.7	1823.8	2075.2	2361.3	2497.9	2425.7	2406.4	2374.2	2318.8	2405.1
65°	1500.3	1499.0	1633.1	1950.1	2308.5	2521.1	2553.3	2543.0	2503.1	2407.7	2554.6
67.5°	1232.2	1261.9	1393.3	1728.4	2180.9	2544.3	2683.5	2670.6	2607.5	2487.6	2625.5
70°	939.6	957.7	1107.2	1395.9	1926.9	2481.2	2811.1	2815.0	2700.3	2504.4	2594.6
72.5°	599.3	630.3	748.9	1017.0	1542.8	2246.6	2887.2	2905.2	2751.8	2481.2	2402.5
73°	549.1	551.7	667.7	940.9	1423.0	2162.8	2882.0	2910.4	2757.0	2458.0	2349.7
75°	327.4	341.6	411.2	625.1	1015.7	1737.5	2742.8	2799.5	2729.9	2354.9	2059.7
77.5°	153.4	163.7	202.4	330.0	552.9	1045.3	2305.9	2372.9	2419.3	2061.0	1569.9
80°	81.2	82.5	99.2	166.3	296.5	430.5	1607.3	1718.1	1783.9	1551.9	1055.6
82.5°	68.3	68.3	77.3	107.0	189.5	167.6	662.5	788.8	966.7	764.3	415.0
85°	55.4	56.7	77.3	79.9	135.3	86.4	158.5	198.5	375.1	337.7	46.4
87.5°	18.0	20.6	43.8	56.7	72.2	33.5	40.0	43.8	43.8	64.4	15.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P595177
 CATALOG NUMBER: IST-PA1C-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7
2.5°	532.3	532.3	533.6	534.9	537.5	537.5	540.1	541.3	543.9	545.2	541.3
5°	537.5	540.1	542.6	550.4	559.4	567.1	574.9	581.3	587.7	591.6	590.3
7.5°	551.7	555.5	565.8	580.0	598.1	609.7	621.3	632.9	638.0	640.6	640.6
10°	571.0	578.7	598.1	621.3	641.9	659.9	668.9	676.7	679.3	681.8	679.3
12.5°	598.1	608.4	638.0	667.7	690.9	699.9	698.6	688.3	674.1	671.5	668.9
15°	632.9	645.7	679.3	714.1	732.1	720.5	690.9	680.5	678.0	685.7	683.1
17.5°	662.5	678.0	719.2	755.3	751.4	711.5	702.5	707.6	705.0	706.3	706.3
20°	690.9	712.8	756.6	781.1	747.6	721.8	714.1	707.6	699.9	702.5	699.9
22.5°	727.0	742.4	792.7	794.0	742.4	721.8	705.0	692.1	689.6	690.9	692.1
25°	755.3	779.8	823.6	785.0	742.4	701.2	678.0	675.4	676.7	684.4	681.8
27.5°	794.0	818.5	848.1	779.8	711.5	667.7	658.6	657.3	648.3	650.9	650.9
30°	830.1	859.7	861.0	779.8	672.8	639.3	626.4	603.2	583.9	587.7	586.5
32.5°	879.0	904.8	863.6	748.9	629.0	601.9	567.1	531.0	522.0	527.2	528.5
35°	935.8	956.4	866.2	697.3	585.2	549.1	485.9	465.3	464.0	467.9	471.7
37.5°	1010.5	1022.1	885.5	638.0	542.6	466.6	417.6	412.5	400.9	393.1	394.4
40°	1102.0	1087.8	922.9	585.2	492.4	391.8	371.2	357.0	335.1	313.2	317.1
42.5°	1203.9	1163.9	934.5	542.6	424.1	345.4	326.1	304.2	277.1	253.9	252.6
45°	1313.4	1249.0	924.2	509.1	355.7	310.6	290.0	264.2	232.0	212.7	212.7
47.5°	1443.6	1330.2	891.9	482.1	308.1	279.7	253.9	228.1	206.2	188.2	188.2
50°	1586.7	1424.3	868.7	434.4	274.5	250.1	224.3	203.6	186.9	172.7	172.7
52.5°	1737.5	1513.2	849.4	364.8	244.9	223.0	204.9	188.2	174.0	156.0	153.4
55°	1890.8	1598.3	858.4	297.7	217.8	203.6	192.0	175.3	170.1	166.3	163.7
57.5°	2050.7	1691.1	880.3	243.6	194.6	193.3	188.2	199.8	211.4	203.6	199.8
60°	2175.7	1763.2	882.9	204.9	180.4	203.6	229.4	233.3	202.4	184.3	183.0
62.5°	2274.9	1831.6	822.3	177.9	184.3	239.7	244.9	206.2	175.3	167.6	167.6
65°	2326.5	1856.0	661.2	162.4	192.0	229.4	221.7	185.6	163.7	162.4	162.4
67.5°	2300.7	1836.7	462.7	145.6	170.1	198.5	198.5	170.1	150.8	157.2	154.7
70°	2177.0	1741.3	305.5	131.5	149.5	179.2	184.3	158.5	140.5	144.4	140.5
72.5°	1919.2	1571.2	201.1	116.0	128.9	158.5	171.4	145.6	128.9	127.6	123.7
73°	1868.9	1506.7	189.5	113.4	125.0	153.4	167.6	143.1	126.3	122.4	119.9
75°	1585.4	1256.7	143.1	101.8	110.8	137.9	156.0	134.0	116.0	110.8	108.3
77.5°	1154.9	871.3	107.0	86.4	92.8	119.9	137.9	122.4	103.1	96.7	95.4
80°	720.5	474.3	79.9	69.6	73.5	100.5	121.2	109.6	88.9	81.2	79.9
82.5°	282.3	154.7	55.4	51.6	54.1	76.0	101.8	95.4	74.8	68.3	64.4
85°	46.4	52.8	36.1	34.8	34.8	54.1	77.3	73.5	50.3	43.8	38.7
87.5°	12.9	24.5	14.2	12.9	12.9	23.2	42.5	33.5	20.6	16.8	15.5
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)