

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: P595168

Luminaire Tested: **IST-PA1C-827-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595168
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-827-U-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4864 lumens
Efficiency: N/A
Efficacy: 100.7 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

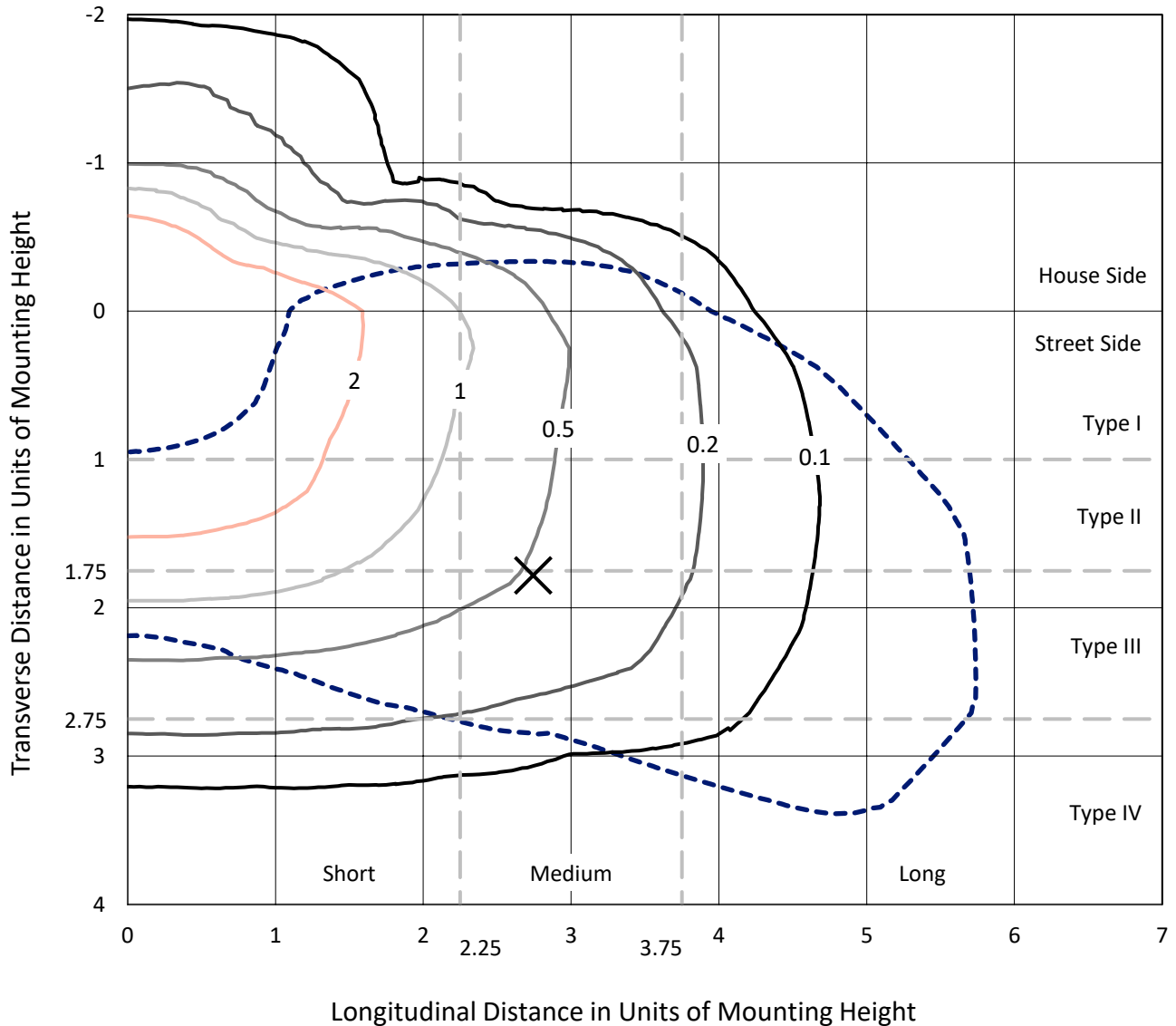
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

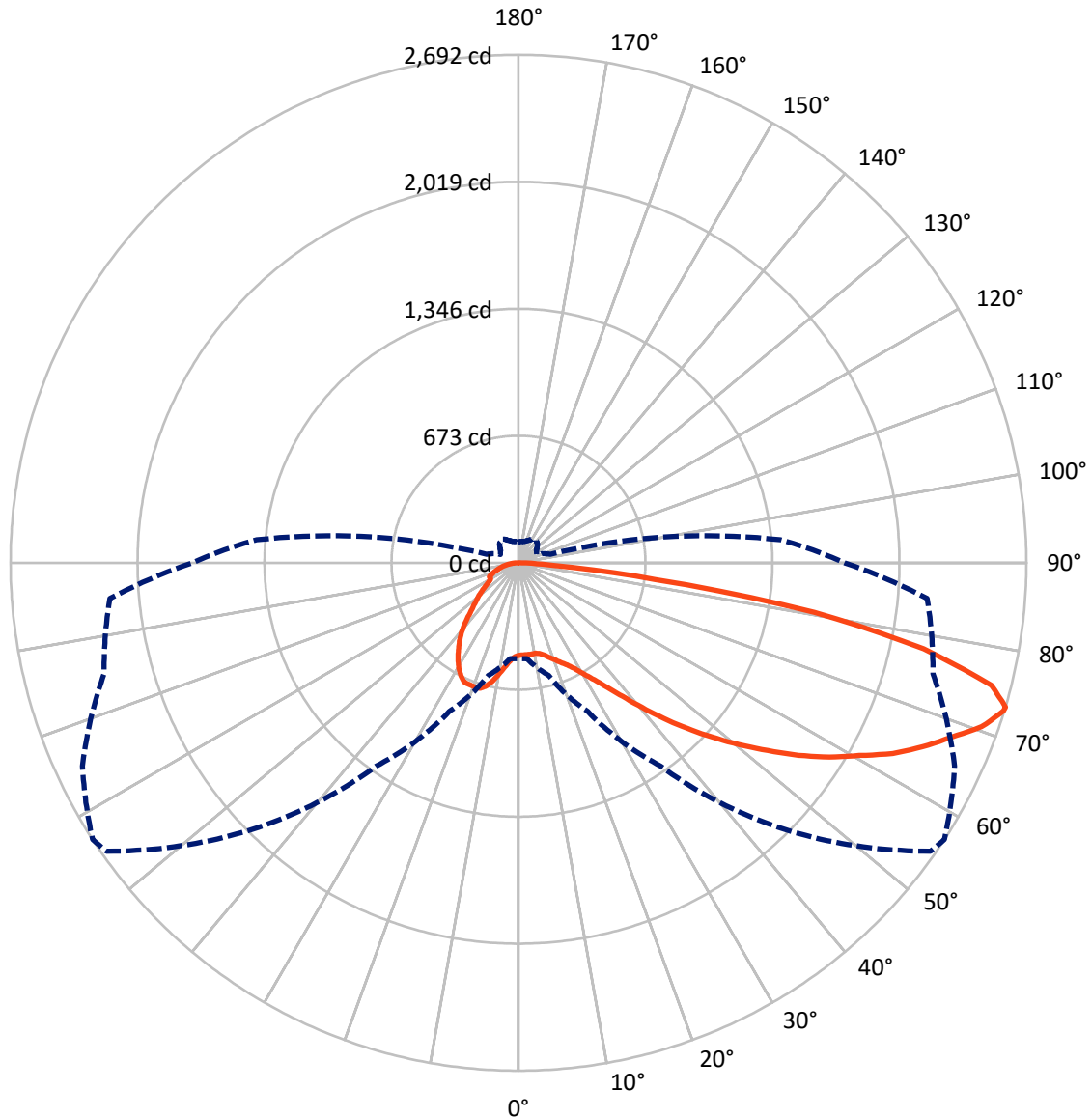
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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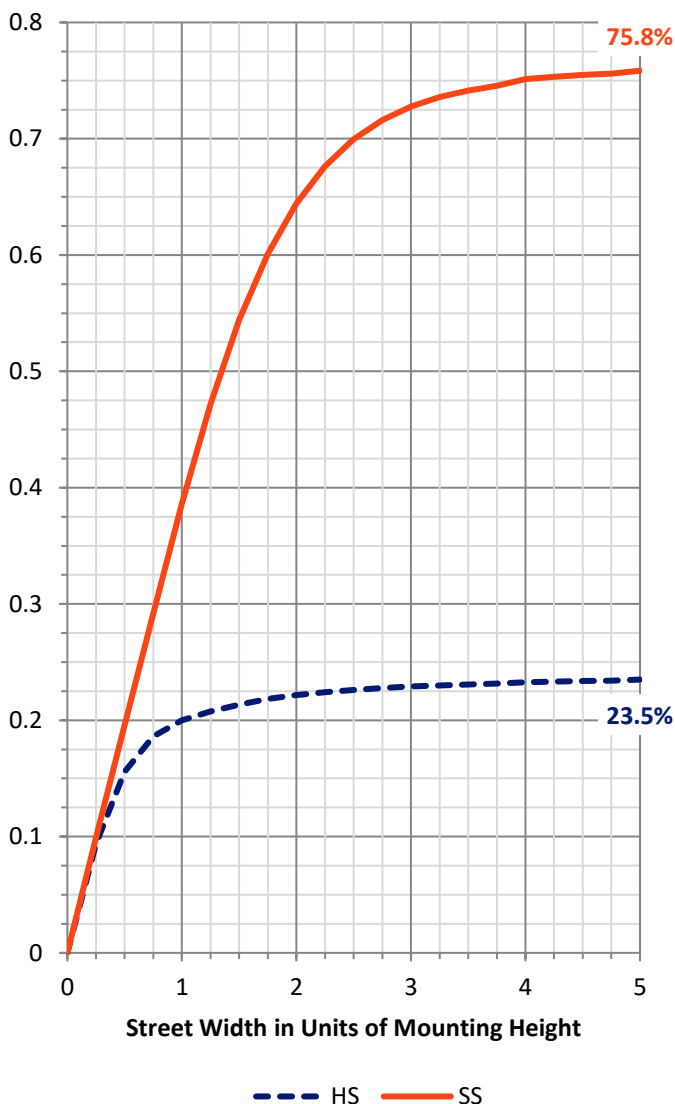
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1160.4	0.0	1160.4
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	3703.6	0.0	3703.6
	% Fixture	76.1	0.0	76.1
Total	Lumens	4864.0	0.0	4864.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.0
10°-20°	160.9	3.3
20°-30°	297.1	6.1
30°-40°	458.7	9.4
40°-50°	690.4	14.2
50°-60°	1010.5	20.8
60°-70°	1193.4	24.5
70°-80°	854.4	17.6
80°-90°	149.7	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°	4864.0	100.0
0°-180°	4864.0	100.0

Coefficient of Utilization

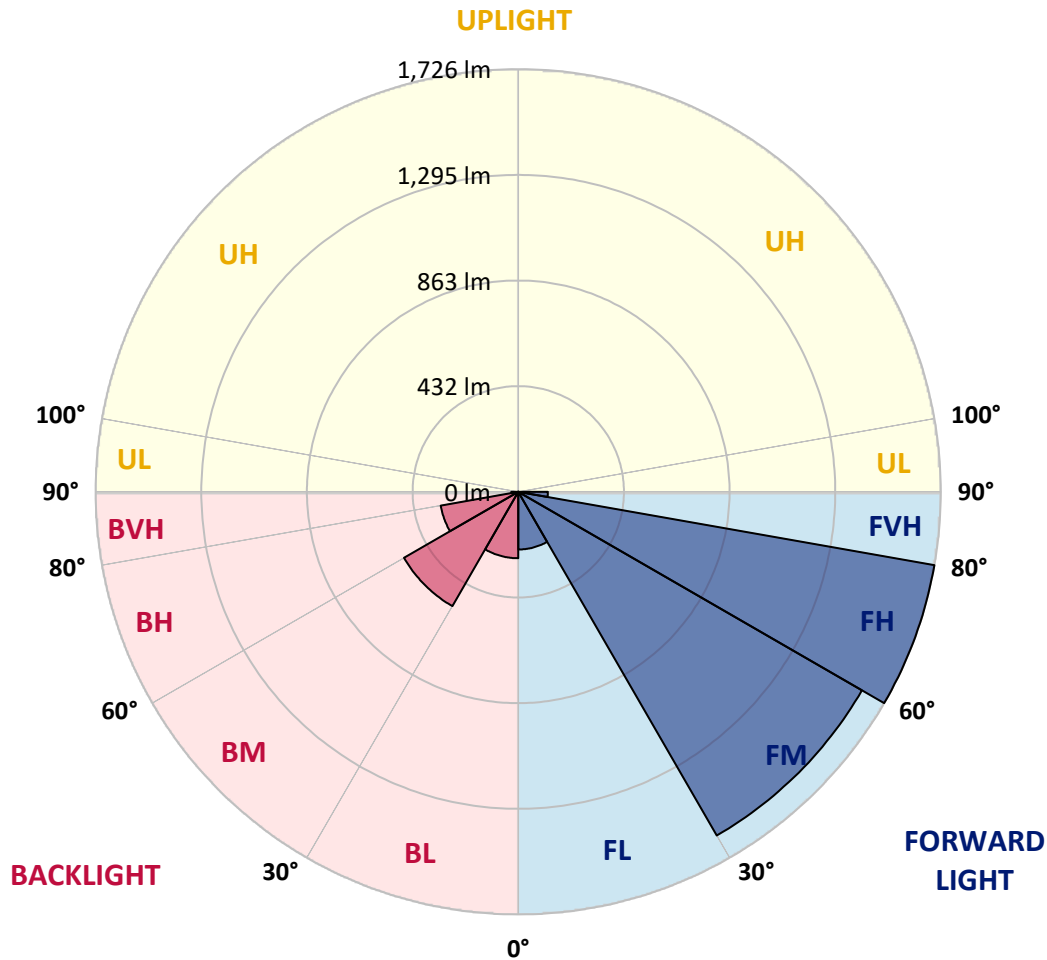


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	235.7	4.8			
FM (30°-60°)	1620.8	33.3			
FH (60°-80°)	1726.0	35.5			G1/1800
FVH (80°-90°)	121.1	2.5			G2/225
BL (0°-30°)	271.2	5.6	B1/500		
BM (30°-60°)	538.9	11.1	B1/1000		
BH (60°-80°)	321.7	6.6	B1/500		G1/500
BVH (80°-90°)	28.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	490.1	490.1	490.1	490.1	490.1	490.1	490.1	490.1	490.1	490.1	490.1
2.5°	484.1	486.5	485.3	486.5	490.1	487.7	487.7	488.9	490.1	488.9	491.2
5°	463.8	465.0	467.4	472.2	480.5	482.9	488.9	488.9	491.2	493.6	497.2
7.5°	430.4	432.8	437.6	442.4	456.7	471.0	486.5	488.9	497.2	503.2	505.6
10°	424.5	426.9	428.0	435.2	449.5	463.8	482.9	487.7	503.2	512.7	523.4
12.5°	418.5	420.9	424.5	434.0	451.9	467.4	487.7	492.4	511.5	530.6	543.7
15°	423.3	424.5	428.0	437.6	455.5	476.9	503.2	506.7	528.2	552.1	572.3
17.5°	435.2	436.4	435.2	443.5	460.2	485.3	521.1	527.0	553.2	577.1	597.4
20°	462.6	463.8	459.0	459.0	471.0	496.0	540.1	548.5	580.7	606.9	627.2
22.5°	522.2	519.9	507.9	492.4	492.4	512.7	561.6	573.5	614.1	635.5	653.4
25°	606.9	606.9	587.8	559.2	540.1	537.7	586.6	599.7	647.4	673.7	684.4
27.5°	709.4	710.6	679.6	641.5	604.5	586.6	622.4	635.5	689.2	716.6	720.2
30°	800.1	801.2	770.2	734.5	689.2	649.8	670.1	684.4	746.4	767.9	755.9
32.5°	890.7	891.9	870.4	821.5	773.8	724.9	730.9	739.2	802.4	822.7	803.6
35°	969.4	972.9	951.5	914.5	864.4	820.3	809.6	810.8	868.0	881.1	856.1
37.5°	1049.3	1049.3	1036.1	1001.6	958.6	909.8	895.4	899.0	950.3	963.4	927.6
40°	1150.6	1155.4	1148.2	1105.3	1056.4	1015.9	1001.6	1006.3	1062.4	1055.2	1017.1
42.5°	1273.4	1284.1	1272.2	1225.7	1173.3	1127.9	1127.9	1127.9	1175.6	1176.8	1119.6
45°	1430.8	1430.8	1418.9	1378.3	1309.2	1263.9	1248.4	1252.0	1293.7	1298.5	1231.7
47.5°	1562.0	1573.9	1560.8	1531.0	1476.1	1433.2	1384.3	1378.3	1412.9	1412.9	1355.7
50°	1668.1	1689.5	1678.8	1691.9	1652.6	1631.1	1531.0	1514.3	1526.2	1538.1	1474.9
52.5°	1756.3	1773.0	1769.4	1807.6	1826.7	1838.6	1680.0	1653.8	1663.3	1662.1	1604.9
55°	1762.3	1768.2	1821.9	1907.7	1982.9	2038.9	1830.2	1801.6	1792.1	1787.3	1743.2
57.5°	1727.7	1731.3	1838.6	1939.9	2103.3	2167.7	1972.1	1943.5	1930.4	1913.7	1895.8
60°	1644.2	1662.1	1802.8	1959.0	2174.8	2267.8	2104.5	2074.7	2065.1	2029.4	2069.9
62.5°	1538.1	1546.5	1687.2	1919.7	2184.4	2310.7	2244.0	2226.1	2196.3	2145.0	2224.9
65°	1387.9	1386.7	1510.7	1804.0	2135.5	2332.2	2362.0	2352.5	2315.5	2227.3	2363.2
67.5°	1139.9	1167.3	1288.9	1598.9	2017.4	2353.7	2482.4	2470.5	2412.1	2301.2	2428.8
70°	869.2	885.9	1024.2	1291.3	1782.5	2295.2	2600.5	2604.1	2497.9	2316.7	2400.2
72.5°	554.4	583.1	692.7	940.8	1427.2	2078.2	2670.8	2687.5	2545.6	2295.2	2222.5
73°	507.9	510.3	617.6	870.4	1316.3	2000.7	2666.1	2692.3	2550.4	2273.8	2173.6
75°	302.9	316.0	380.4	578.3	939.6	1607.3	2537.3	2589.8	2525.4	2178.4	1905.4
77.5°	141.9	151.4	187.2	305.2	511.5	967.0	2133.1	2195.1	2238.0	1906.5	1452.3
80°	75.1	76.3	91.8	153.8	274.2	398.2	1486.8	1589.4	1650.2	1435.6	976.5
82.5°	63.2	63.2	71.5	99.0	175.3	155.0	612.9	729.7	894.3	707.1	383.9
85°	51.3	52.5	71.5	73.9	125.2	79.9	146.7	183.6	347.0	312.4	42.9
87.5°	16.7	19.1	40.5	52.5	66.8	31.0	37.0	40.5	40.5	59.6	14.3
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°	490.1	490.1	490.1	490.1	490.1	490.1	490.1	490.1	490.1	490.1	490.1
2.5°	492.4	492.4	493.6	494.8	497.2	497.2	499.6	500.8	503.2	504.4	500.8
5°	497.2	499.6	502.0	509.1	517.5	524.6	531.8	537.7	543.7	547.3	546.1
7.5°	510.3	513.9	523.4	536.6	553.2	564.0	574.7	585.4	590.2	592.6	592.6
10°	528.2	535.4	553.2	574.7	593.8	610.5	618.8	626.0	628.4	630.7	628.4
12.5°	553.2	562.8	590.2	617.6	639.1	647.4	646.2	636.7	623.6	621.2	618.8
15°	585.4	597.4	628.4	660.6	677.2	666.5	639.1	629.6	627.2	634.3	631.9
17.5°	612.9	627.2	665.3	698.7	695.1	658.2	649.8	654.6	652.2	653.4	653.4
20°	639.1	659.4	699.9	722.6	691.6	667.7	660.6	654.6	647.4	649.8	647.4
22.5°	672.5	686.8	733.3	734.5	686.8	667.7	652.2	640.3	637.9	639.1	640.3
25°	698.7	721.4	761.9	726.1	686.8	648.6	627.2	624.8	626.0	633.1	630.7
27.5°	734.5	757.1	784.6	721.4	658.2	617.6	609.3	608.1	599.7	602.1	602.1
30°	767.9	795.3	796.5	721.4	622.4	591.4	579.5	558.0	540.1	543.7	542.5
32.5°	813.2	837.0	798.9	692.7	581.9	556.8	524.6	491.2	482.9	487.7	488.9
35°	865.6	884.7	801.2	645.1	541.3	507.9	449.5	430.4	429.2	432.8	436.4
37.5°	934.8	945.5	819.1	590.2	502.0	431.6	386.3	381.5	370.8	363.7	364.9
40°	1019.4	1006.3	853.7	541.3	455.5	362.5	343.4	330.3	310.0	289.7	293.3
42.5°	1113.6	1076.7	864.4	502.0	392.3	319.5	301.7	281.4	256.4	234.9	233.7
45°	1215.0	1155.4	854.9	471.0	329.1	287.4	268.3	244.4	214.6	196.7	196.7
47.5°	1335.4	1230.5	825.1	445.9	285.0	258.7	234.9	211.0	190.8	174.1	174.1
50°	1467.8	1317.5	803.6	401.8	254.0	231.3	207.5	188.4	172.9	159.8	159.8
52.5°	1607.3	1399.8	785.7	337.4	226.5	206.3	189.6	174.1	161.0	144.3	141.9
55°	1749.2	1478.5	794.1	275.4	201.5	188.4	177.7	162.2	157.4	153.8	151.4
57.5°	1897.0	1564.3	814.4	225.4	180.0	178.9	174.1	184.8	195.5	188.4	184.8
60°	2012.7	1631.1	816.8	189.6	166.9	188.4	212.2	215.8	187.2	170.5	169.3
62.5°	2104.5	1694.3	760.7	164.5	170.5	221.8	226.5	190.8	162.2	155.0	155.0
65°	2152.2	1717.0	611.7	150.2	177.7	212.2	205.1	171.7	151.4	150.2	150.2
67.5°	2128.3	1699.1	428.0	134.7	157.4	183.6	183.6	157.4	139.5	145.5	143.1
70°	2013.9	1610.8	282.6	121.6	138.3	165.7	170.5	146.7	130.0	133.5	130.0
72.5°	1775.4	1453.5	186.0	107.3	119.2	146.7	158.6	134.7	119.2	118.0	114.5
73°	1728.9	1393.8	175.3	104.9	115.7	141.9	155.0	132.3	116.8	113.3	110.9
75°	1466.6	1162.5	132.3	94.2	102.5	127.6	144.3	124.0	107.3	102.5	100.2
77.5°	1068.3	806.0	99.0	79.9	85.8	110.9	127.6	113.3	95.4	89.4	88.2
80°	666.5	438.8	73.9	64.4	68.0	93.0	112.1	101.3	82.3	75.1	73.9
82.5°	261.1	143.1	51.3	47.7	50.1	70.3	94.2	88.2	69.2	63.2	59.6
85°	42.9	48.9	33.4	32.2	32.2	50.1	71.5	68.0	46.5	40.5	35.8
87.5°	11.9	22.7	13.1	11.9	11.9	21.5	39.3	31.0	19.1	15.5	14.3
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)