

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: P595042

Luminaire Tested: **IST-PA1B-730-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595042
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-PA1B-730-U-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4660 lumens
Efficiency: N/A
Efficacy: 128.0 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

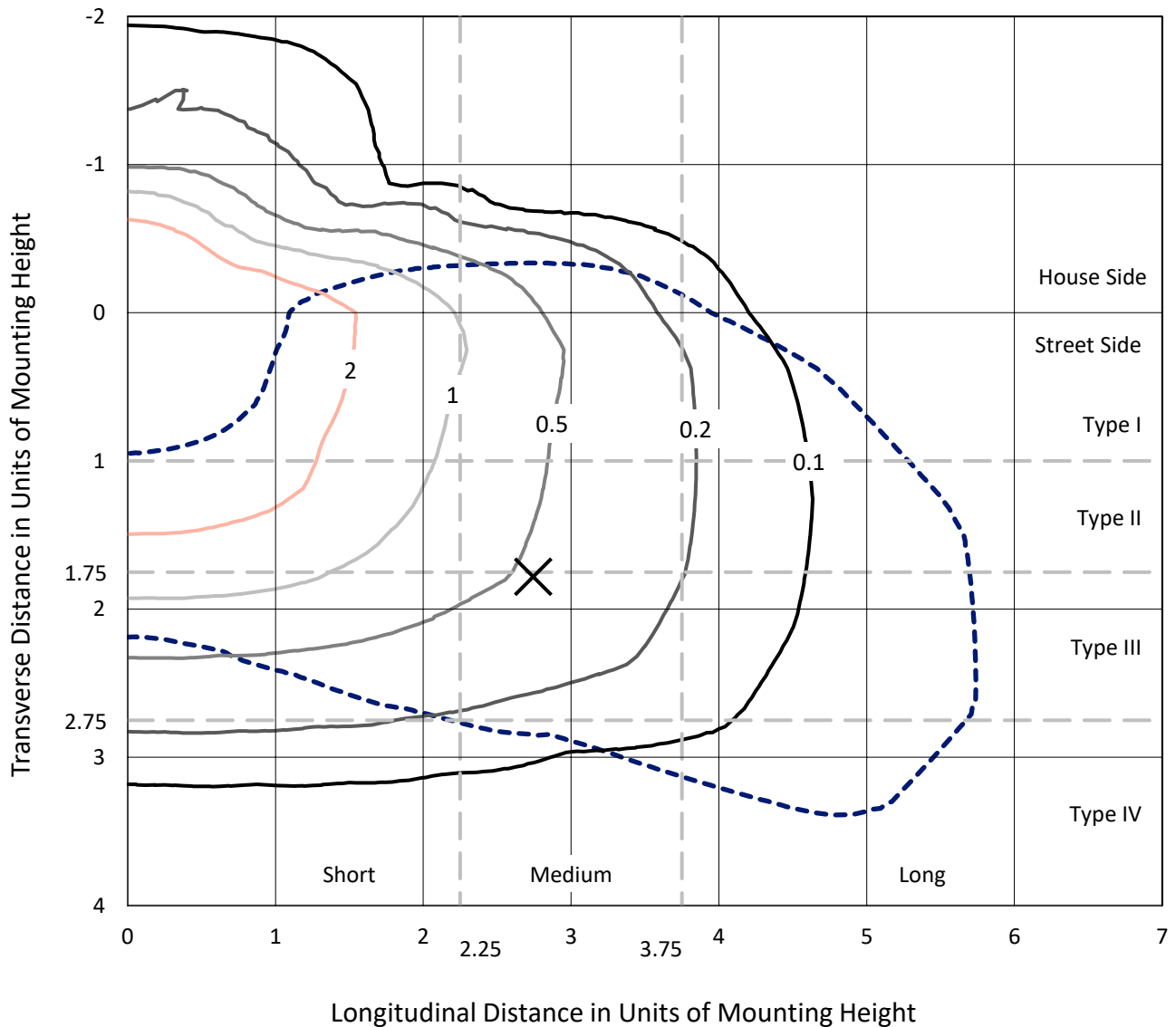
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

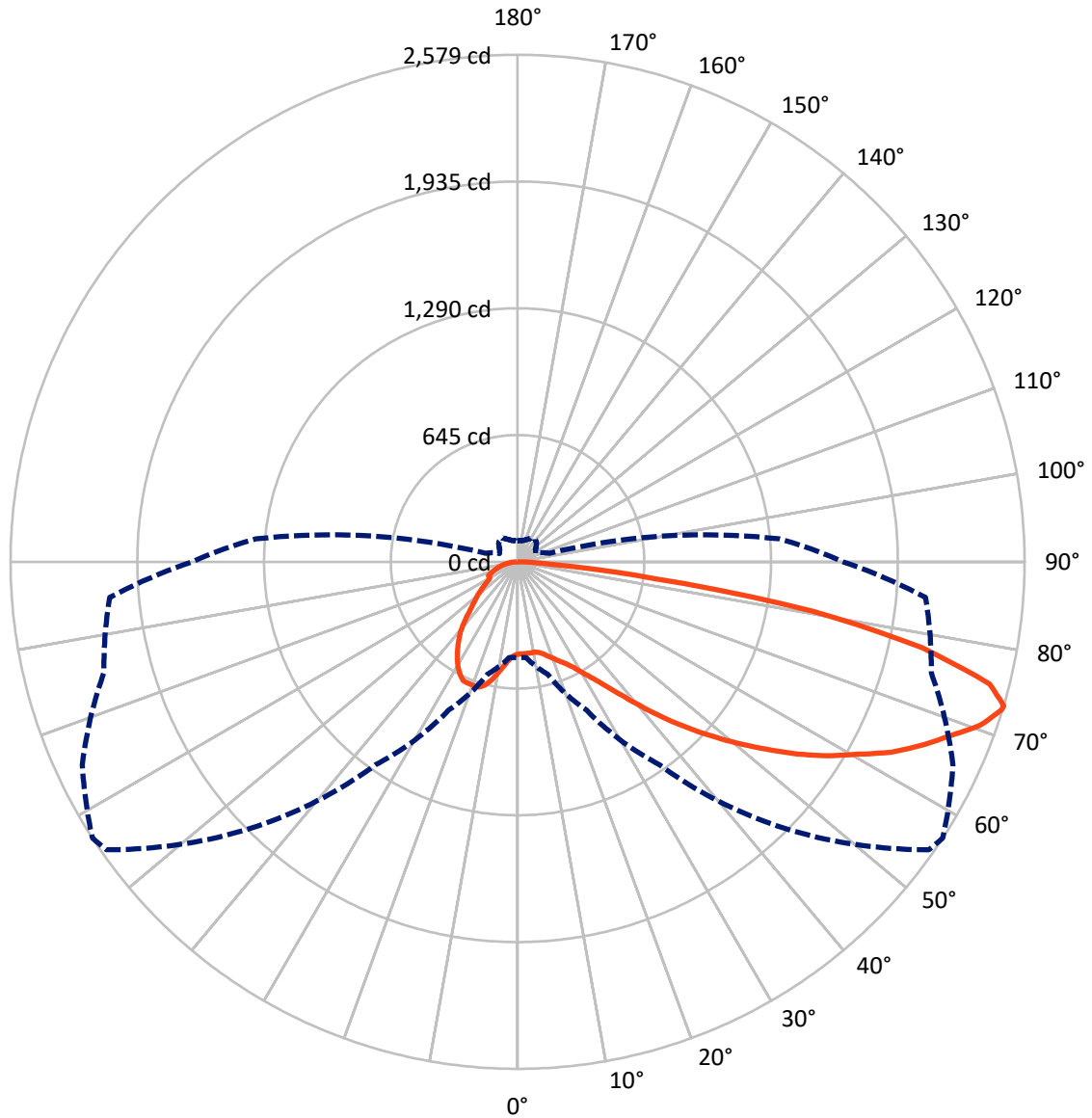
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4 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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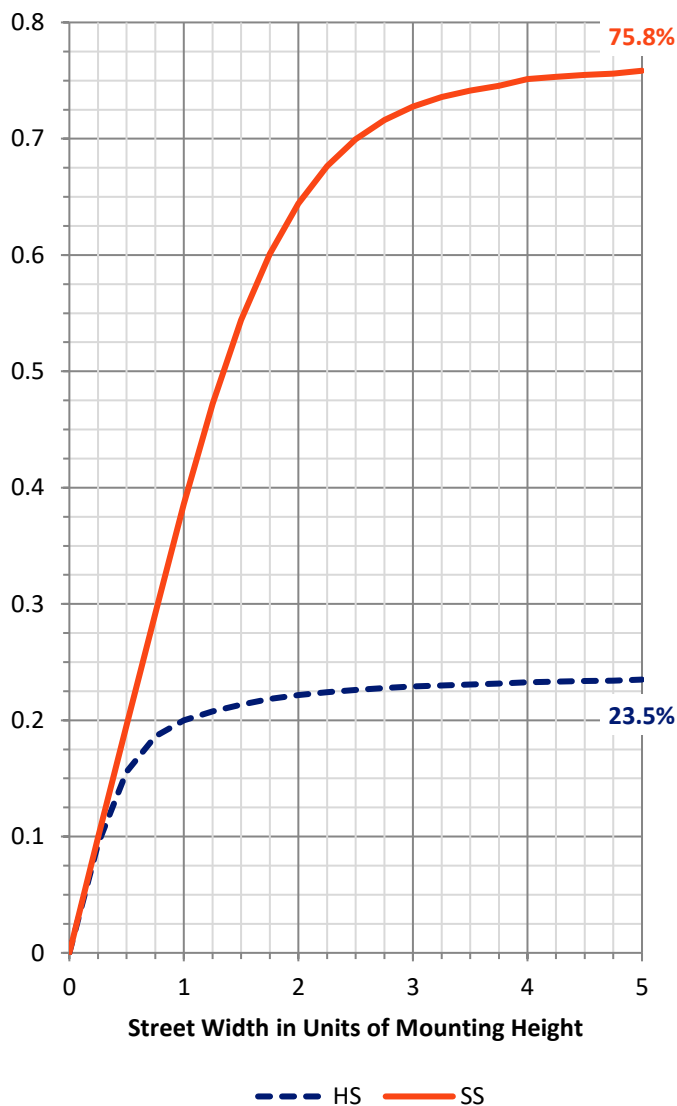
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1111.7	0.0	1111.7
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	3548.3	0.0	3548.3
	% Fixture	76.1	0.0	76.1
Total	Lumens	4660.0	0.0	4660.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	1.0
10°-20°	154.2	3.3
20°-30°	284.6	6.1
30°-40°	439.5	9.4
40°-50°	661.5	14.2
50°-60°	968.2	20.8
60°-70°	1143.3	24.5
70°-80°	818.5	17.6
80°-90°	143.4	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°	4660.0	100.0
0°-180°	4660.0	100.0

Coefficient of Utilization

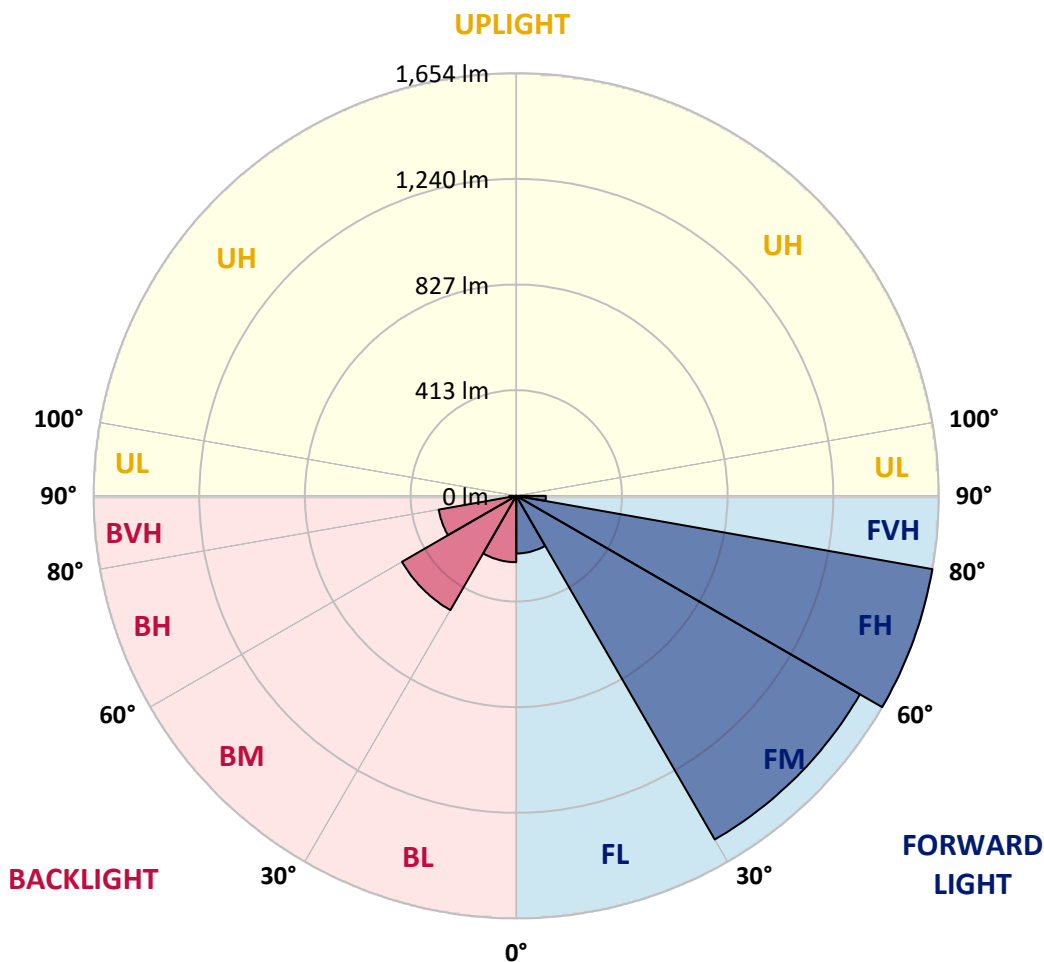


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	225.8	4.8			
FM (30°-60°)	1552.8	33.3			
FH (60°-80°)	1653.6	35.5			G1/1800
FVH (80°-90°)	116.0	2.5			G2/225
BL (0°-30°)	259.8	5.6	B1/500		
BM (30°-60°)	516.3	11.1	B1/1000		
BH (60°-80°)	308.2	6.6	B1/500		G1/500
BVH (80°-90°)	27.4	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°	469.5	469.5	469.5	469.5	469.5	469.5	469.5	469.5	469.5	469.5	469.5
2.5°	463.8	466.1	464.9	466.1	469.5	467.2	467.2	468.4	469.5	468.4	470.6
5°	444.4	445.5	447.8	452.4	460.4	462.6	468.4	468.4	470.6	472.9	476.4
7.5°	412.4	414.7	419.2	423.8	437.5	451.2	466.1	468.4	476.4	482.1	484.3
10°	406.7	409.0	410.1	416.9	430.7	444.4	462.6	467.2	482.1	491.2	501.5
12.5°	401.0	403.2	406.7	415.8	432.9	447.8	467.2	471.8	490.1	508.3	520.9
15°	405.5	406.7	410.1	419.2	436.4	456.9	482.1	485.5	506.1	528.9	548.3
17.5°	416.9	418.1	416.9	424.9	440.9	464.9	499.2	504.9	530.0	552.9	572.3
20°	443.2	444.4	439.8	439.8	451.2	475.2	517.5	525.5	556.3	581.4	600.9
22.5°	500.3	498.1	486.6	471.8	471.8	491.2	538.0	549.5	588.3	608.9	626.0
25°	581.4	581.4	563.2	535.8	517.5	515.2	562.0	574.6	620.3	645.4	655.7
27.5°	679.7	680.8	651.1	614.6	579.2	562.0	596.3	608.9	660.3	686.5	690.0
30°	766.5	767.6	737.9	703.7	660.3	622.6	642.0	655.7	715.1	735.7	724.2
32.5°	853.3	854.5	833.9	787.1	741.4	694.5	700.2	708.2	768.8	788.2	769.9
35°	928.7	932.1	911.6	876.2	828.2	785.9	775.6	776.8	831.6	844.2	820.2
37.5°	1005.2	1005.2	992.7	959.6	918.4	871.6	857.9	861.3	910.4	923.0	888.7
40°	1102.3	1106.9	1100.1	1058.9	1012.1	973.3	959.6	964.1	1017.8	1011.0	974.4
42.5°	1220.0	1230.3	1218.9	1174.3	1124.1	1080.6	1080.6	1080.6	1126.3	1127.5	1072.6
45°	1370.8	1370.8	1359.4	1320.5	1254.3	1210.9	1196.0	1199.4	1239.4	1244.0	1180.0
47.5°	1496.5	1507.9	1495.3	1466.7	1414.2	1373.1	1326.2	1320.5	1353.7	1353.7	1298.8
50°	1598.1	1618.7	1608.4	1621.0	1583.3	1562.7	1466.7	1450.8	1462.2	1473.6	1413.1
52.5°	1682.6	1698.6	1695.2	1731.8	1750.0	1761.5	1609.5	1584.4	1593.5	1592.4	1537.6
55°	1688.4	1694.1	1745.5	1827.7	1899.7	1953.4	1753.5	1726.1	1716.9	1712.4	1670.1
57.5°	1655.2	1658.7	1761.5	1858.6	2015.1	2076.8	1889.4	1862.0	1849.4	1833.4	1816.3
60°	1575.3	1592.4	1727.2	1876.8	2083.6	2172.7	2016.2	1987.7	1978.5	1944.2	1983.1
62.5°	1473.6	1481.6	1616.4	1839.1	2092.7	2213.8	2149.9	2132.7	2104.2	2055.0	2131.6
65°	1329.7	1328.5	1447.3	1728.3	2045.9	2234.4	2263.0	2253.8	2218.4	2133.9	2264.1
67.5°	1092.1	1118.3	1234.9	1531.9	1932.8	2255.0	2378.3	2366.9	2310.9	2204.7	2326.9
70°	832.8	848.8	981.3	1237.1	1707.8	2199.0	2491.4	2494.8	2393.2	2219.5	2299.5
72.5°	531.2	558.6	663.7	901.3	1367.4	1991.1	2558.8	2574.8	2438.9	2199.0	2129.3
73°	486.6	488.9	591.7	833.9	1261.1	1916.8	2554.2	2579.4	2443.4	2178.4	2082.5
75°	290.2	302.7	364.4	554.0	900.2	1539.9	2430.9	2481.1	2419.5	2087.0	1825.4
77.5°	135.9	145.1	179.3	292.4	490.1	926.4	2043.6	2103.0	2144.2	1826.6	1391.4
80°	72.0	73.1	88.0	147.4	262.7	381.5	1424.5	1522.7	1581.0	1375.4	935.6
82.5°	60.5	60.5	68.5	94.8	167.9	148.5	587.2	699.1	856.7	677.4	367.8
85°	49.1	50.3	68.5	70.8	119.9	76.5	140.5	175.9	332.4	299.3	41.1
87.5°	16.0	18.3	38.8	50.3	64.0	29.7	35.4	38.8	38.8	57.1	13.7
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°	469.5	469.5	469.5	469.5	469.5	469.5	469.5	469.5	469.5	469.5	469.5
2.5°	471.8	471.8	472.9	474.1	476.4	476.4	478.6	479.8	482.1	483.2	479.8
5°	476.4	478.6	480.9	487.8	495.8	502.6	509.5	515.2	520.9	524.3	523.2
7.5°	488.9	492.3	501.5	514.0	530.0	540.3	550.6	560.9	565.5	567.7	567.7
10°	506.1	512.9	530.0	550.6	568.9	584.9	592.9	599.7	602.0	604.3	602.0
12.5°	530.0	539.2	565.5	591.7	612.3	620.3	619.1	610.0	597.4	595.2	592.9
15°	560.9	572.3	602.0	632.8	648.8	638.6	612.3	603.1	600.9	607.7	605.4
17.5°	587.2	600.9	637.4	669.4	666.0	630.6	622.6	627.1	624.9	626.0	626.0
20°	612.3	631.7	670.5	692.3	662.6	639.7	632.8	627.1	620.3	622.6	620.3
22.5°	644.3	658.0	702.5	703.7	658.0	639.7	624.9	613.4	611.1	612.3	613.4
25°	669.4	691.1	729.9	695.7	658.0	621.4	600.9	598.6	599.7	606.6	604.3
27.5°	703.7	725.4	751.7	691.1	630.6	591.7	583.7	582.6	574.6	576.9	576.9
30°	735.7	761.9	763.1	691.1	596.3	566.6	555.2	534.6	517.5	520.9	519.8
32.5°	779.1	801.9	765.4	663.7	557.5	533.5	502.6	470.6	462.6	467.2	468.4
35°	829.3	847.6	767.6	618.0	518.6	486.6	430.7	412.4	411.2	414.7	418.1
37.5°	895.6	905.9	784.8	565.5	480.9	413.5	370.1	365.5	355.3	348.4	349.6
40°	976.7	964.1	817.9	518.6	436.4	347.3	329.0	316.4	297.0	277.6	281.0
42.5°	1066.9	1031.5	828.2	480.9	375.8	306.1	289.0	269.6	245.6	225.0	223.9
45°	1164.0	1106.9	819.0	451.2	315.3	275.3	257.0	234.2	205.6	188.5	188.5
47.5°	1279.4	1178.9	790.5	427.2	273.0	247.9	225.0	202.2	182.8	166.8	166.8
50°	1406.2	1262.3	769.9	385.0	243.3	221.6	198.8	180.5	165.6	153.1	153.1
52.5°	1539.9	1341.1	752.8	323.3	217.0	197.6	181.6	166.8	154.2	138.2	135.9
55°	1675.8	1416.5	760.8	263.9	193.1	180.5	170.2	155.4	150.8	147.4	145.1
57.5°	1817.4	1498.7	780.2	215.9	172.5	171.3	166.8	177.1	187.3	180.5	177.1
60°	1928.3	1562.7	782.5	181.6	159.9	180.5	203.3	206.8	179.3	163.4	162.2
62.5°	2016.2	1623.2	728.8	157.6	163.4	212.5	217.0	182.8	155.4	148.5	148.5
65°	2061.9	1645.0	586.0	143.9	170.2	203.3	196.5	164.5	145.1	143.9	143.9
67.5°	2039.1	1627.8	410.1	129.1	150.8	175.9	175.9	150.8	133.7	139.4	137.1
70°	1929.4	1543.3	270.7	116.5	132.5	158.8	163.4	140.5	124.5	127.9	124.5
72.5°	1700.9	1392.5	178.2	102.8	114.2	140.5	151.9	129.1	114.2	113.1	109.7
73°	1656.4	1335.4	167.9	100.5	110.8	135.9	148.5	126.8	111.9	108.5	106.2
75°	1405.1	1113.8	126.8	90.2	98.2	122.2	138.2	118.8	102.8	98.2	96.0
77.5°	1023.5	772.2	94.8	76.5	82.2	106.2	122.2	108.5	91.4	85.7	84.5
80°	638.6	420.4	70.8	61.7	65.1	89.1	107.4	97.1	78.8	72.0	70.8
82.5°	250.2	137.1	49.1	45.7	48.0	67.4	90.2	84.5	66.3	60.5	57.1
85°	41.1	46.8	32.0	30.8	30.8	48.0	68.5	65.1	44.6	38.8	34.3
87.5°	11.4	21.7	12.6	11.4	11.4	20.6	37.7	29.7	18.3	14.9	13.7
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)