

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: P594448

Luminaire Tested: **ISS-PA1A-727-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594448
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: ISS-PA1A-727-U-T3
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3507 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

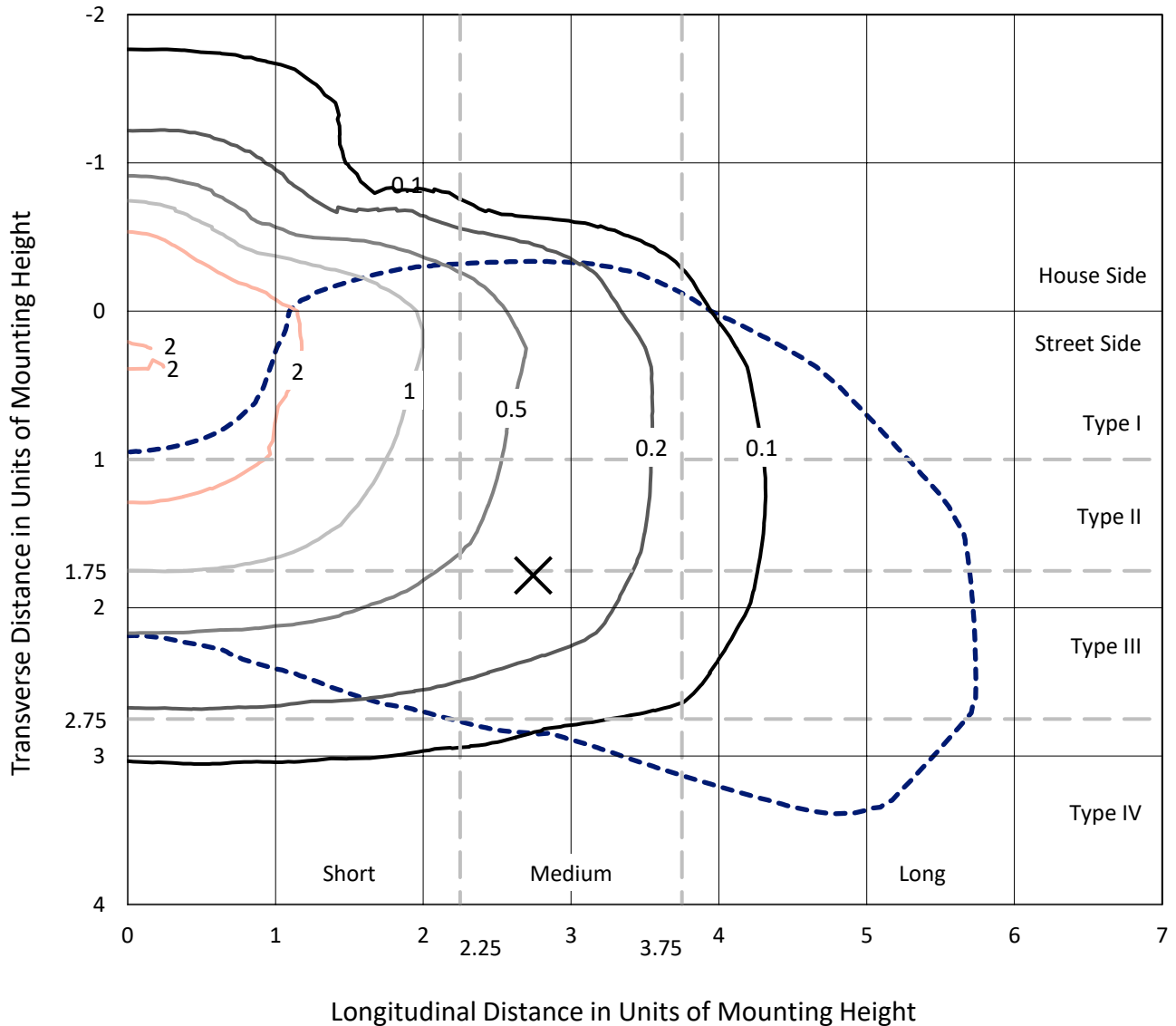
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

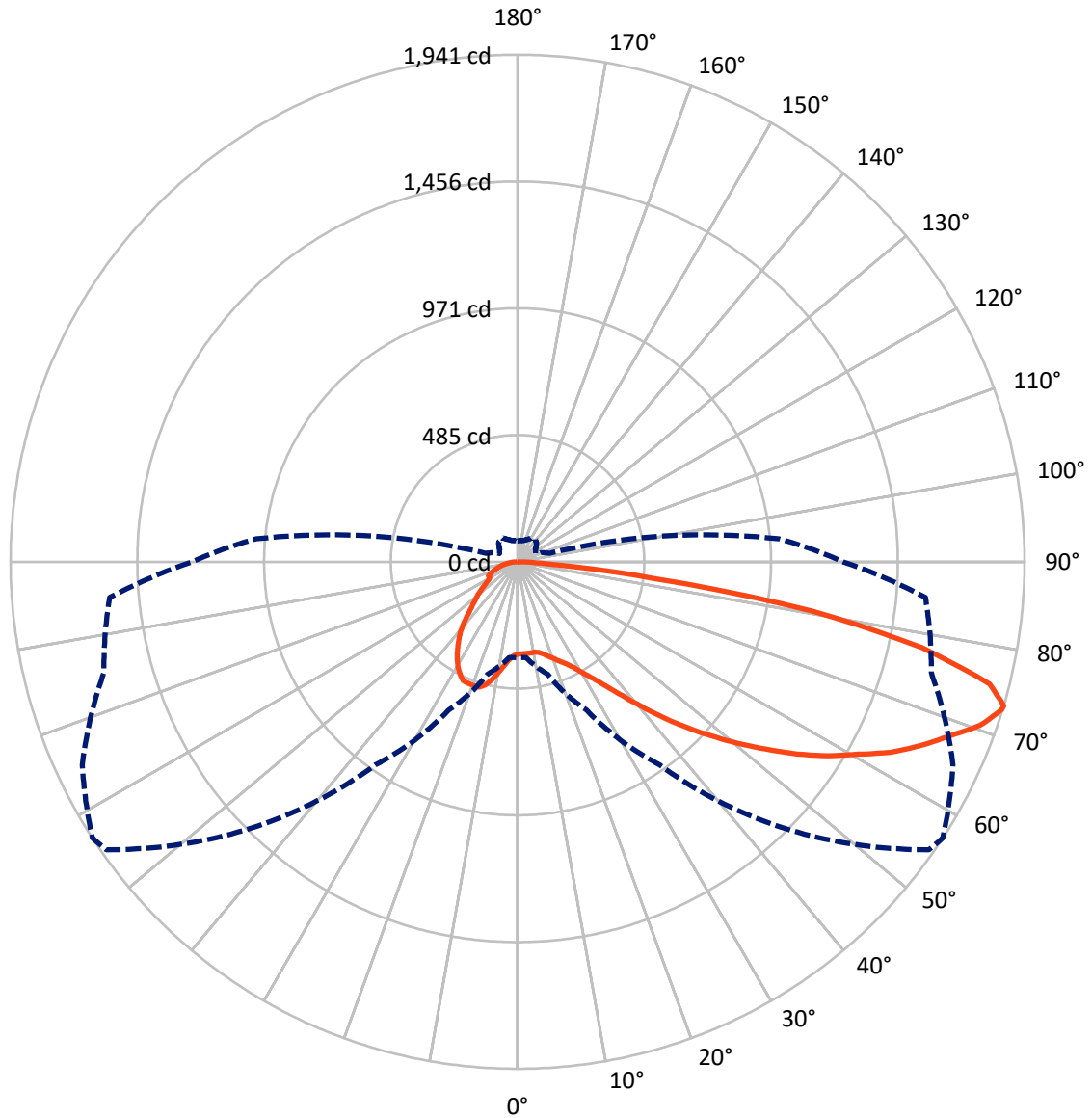
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3 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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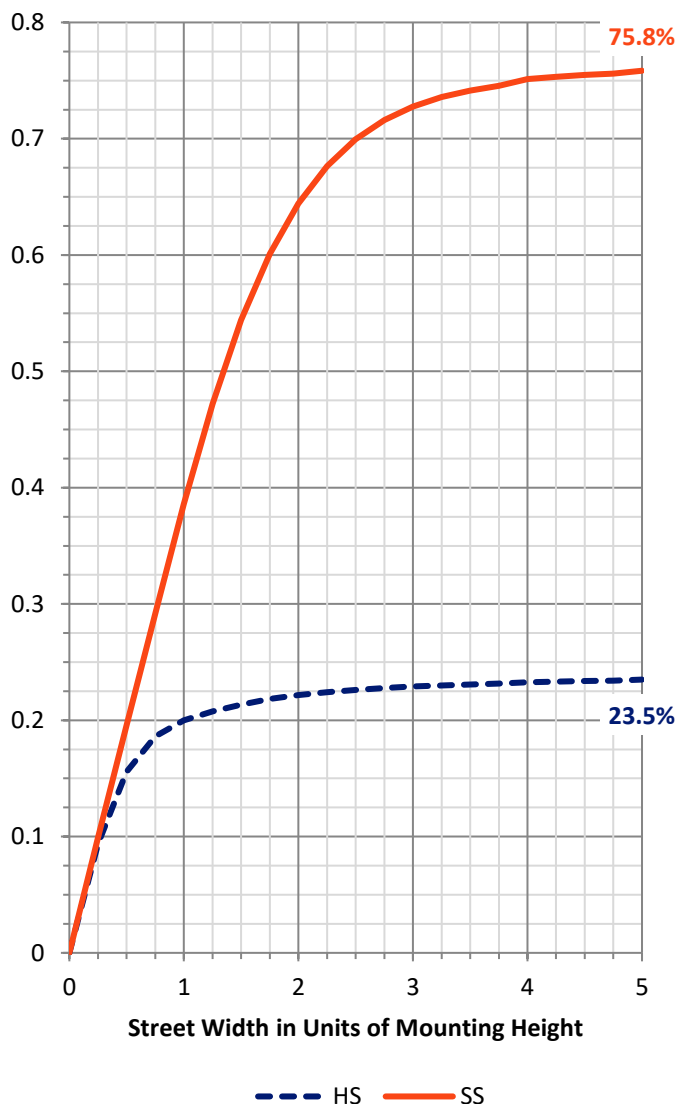
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	836.7	0.0	836.7
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	2670.3	0.0	2670.3
	% Fixture	76.1	0.0	76.1
Total	Lumens	3507.0	0.0	3507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	1.0
10°-20°	116.0	3.3
20°-30°	214.2	6.1
30°-40°	330.7	9.4
40°-50°	497.8	14.2
50°-60°	728.6	20.8
60°-70°	860.4	24.5
70°-80°	616.0	17.6
80°-90°	107.9	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°	3507.0	100.0
0°-180°	3507.0	100.0

Coefficient of Utilization

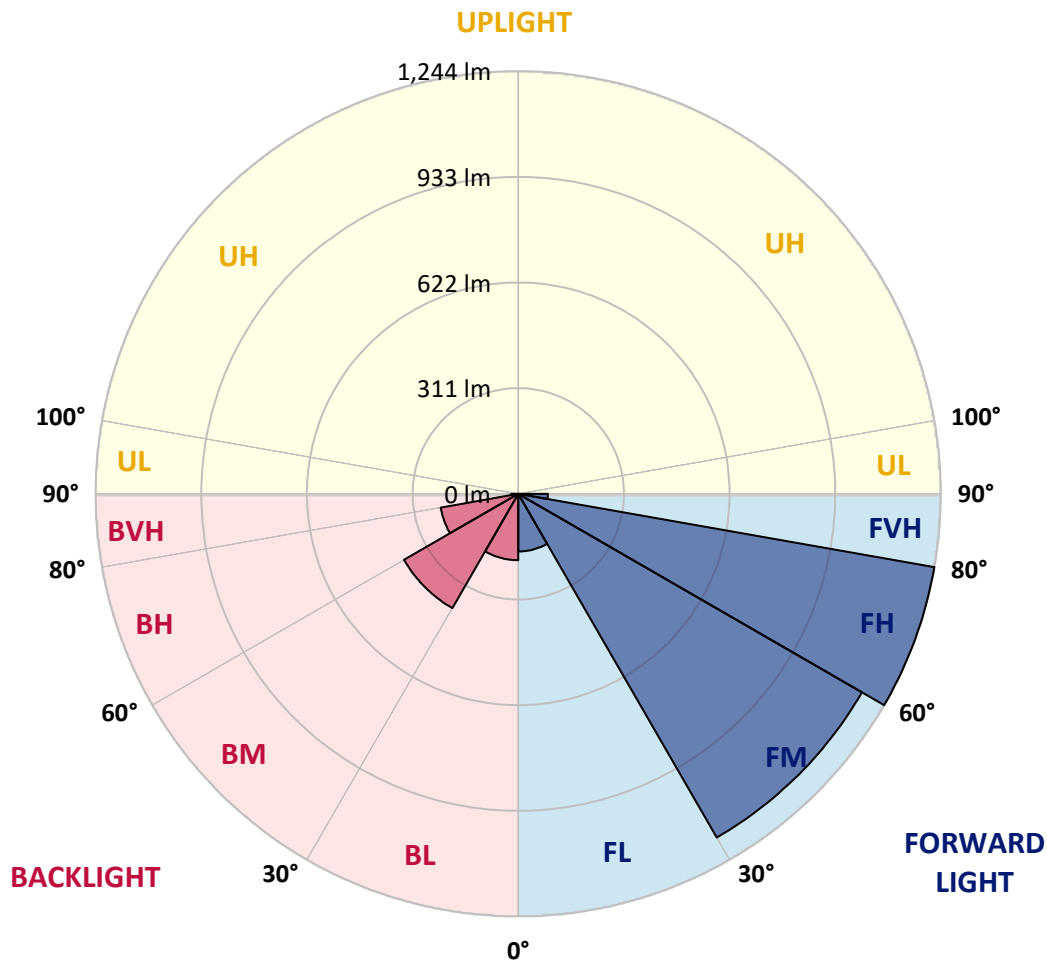


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	169.9	4.8			
FM (30°-60°)	1168.6	33.3			
FH (60°-80°)	1244.5	35.5			G1/1800
FVH (80°-90°)	87.3	2.5			G1/100
BL (0°-30°)	195.5	5.6	B1/500		
BM (30°-60°)	388.5	11.1	B1/1000		
BH (60°-80°)	232.0	6.6	B1/500		G1/500
BVH (80°-90°)	20.6	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-G1
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	353.3	353.3	353.3	353.3	353.3	353.3	353.3	353.3	353.3	353.3	353.3
2.5°	349.0	350.8	349.9	350.8	353.3	351.6	351.6	352.5	353.3	352.5	354.2
5°	334.4	335.3	337.0	340.4	346.5	348.2	352.5	352.5	354.2	355.9	358.5
7.5°	310.3	312.1	315.5	318.9	329.3	339.6	350.8	352.5	358.5	362.8	364.5
10°	306.0	307.8	308.6	313.8	324.1	334.4	348.2	351.6	362.8	369.7	377.4
12.5°	301.8	303.5	306.0	312.9	325.8	337.0	351.6	355.1	368.8	382.6	392.0
15°	305.2	306.0	308.6	315.5	328.4	343.9	362.8	365.4	380.8	398.0	412.7
17.5°	313.8	314.6	313.8	319.8	331.8	349.9	375.7	380.0	398.9	416.1	430.7
20°	333.6	334.4	331.0	331.0	339.6	357.6	389.4	395.5	418.7	437.6	452.2
22.5°	376.5	374.8	366.2	355.1	355.1	369.7	404.9	413.5	442.7	458.2	471.1
25°	437.6	437.6	423.8	403.2	389.4	387.7	423.0	432.4	466.8	485.7	493.5
27.5°	511.5	512.4	490.0	462.5	435.9	423.0	448.8	458.2	496.9	516.7	519.3
30°	576.9	577.7	555.4	529.6	496.9	468.5	483.1	493.5	538.2	553.6	545.0
32.5°	642.2	643.0	627.6	592.3	557.9	522.7	527.0	533.0	578.6	593.2	579.4
35°	698.9	701.5	686.0	659.4	623.3	591.5	583.7	584.6	625.9	635.3	617.3
37.5°	756.5	756.5	747.1	722.1	691.2	655.9	645.6	648.2	685.2	694.6	668.8
40°	829.6	833.0	827.9	796.9	761.7	732.5	722.1	725.6	766.0	760.8	733.3
42.5°	918.1	925.9	917.3	883.8	845.9	813.3	813.3	813.3	847.7	848.5	807.2
45°	1031.6	1031.6	1023.0	993.8	943.9	911.3	900.1	902.7	932.8	936.2	888.1
47.5°	1126.2	1134.8	1125.3	1103.8	1064.3	1033.3	998.1	993.8	1018.7	1018.7	977.5
50°	1202.7	1218.2	1210.4	1219.9	1191.5	1176.1	1103.8	1091.8	1100.4	1109.0	1063.4
52.5°	1266.3	1278.4	1275.8	1303.3	1317.0	1325.6	1211.3	1192.4	1199.3	1198.4	1157.1
55°	1270.6	1274.9	1313.6	1375.5	1429.7	1470.1	1319.6	1299.0	1292.1	1288.7	1256.9
57.5°	1245.7	1248.3	1325.6	1398.7	1516.5	1562.9	1421.9	1401.3	1391.8	1379.8	1366.9
60°	1185.5	1198.4	1299.8	1412.5	1568.1	1635.1	1517.3	1495.9	1489.0	1463.2	1492.4
62.5°	1109.0	1115.0	1216.5	1384.1	1574.9	1666.1	1617.9	1605.0	1583.5	1546.6	1604.2
65°	1000.7	999.8	1089.2	1300.7	1539.7	1681.5	1703.0	1696.2	1669.5	1605.9	1703.9
67.5°	821.9	841.6	929.3	1152.8	1454.6	1697.0	1789.9	1781.3	1739.1	1659.2	1751.2
70°	626.7	638.7	738.5	931.0	1285.2	1654.9	1875.0	1877.6	1801.0	1670.4	1730.6
72.5°	399.8	420.4	499.5	678.3	1029.0	1498.4	1925.7	1937.7	1835.4	1654.9	1602.5
73°	366.2	367.9	445.3	627.6	949.1	1442.6	1922.3	1941.2	1838.9	1639.4	1567.2
75°	218.4	227.8	274.2	416.9	677.4	1158.9	1829.4	1867.2	1820.8	1570.6	1373.8
77.5°	102.3	109.2	135.0	220.1	368.8	697.2	1538.0	1582.7	1613.6	1374.6	1047.1
80°	54.2	55.0	66.2	110.9	197.7	287.1	1072.0	1146.0	1189.8	1035.1	704.1
82.5°	45.6	45.6	51.6	71.4	126.4	111.8	441.9	526.1	644.8	509.8	276.8
85°	37.0	37.8	51.6	53.3	90.3	57.6	105.7	132.4	250.2	225.2	30.9
87.5°	12.0	13.8	29.2	37.8	48.1	22.4	26.7	29.2	29.2	43.0	10.3
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°	353.3	353.3	353.3	353.3	353.3	353.3	353.3	353.3	353.3	353.3	353.3
2.5°	355.1	355.1	355.9	356.8	358.5	358.5	360.2	361.1	362.8	363.6	361.1
5°	358.5	360.2	361.9	367.1	373.1	378.3	383.4	387.7	392.0	394.6	393.7
7.5°	367.9	370.5	377.4	386.9	398.9	406.6	414.4	422.1	425.5	427.3	427.3
10°	380.8	386.0	398.9	414.4	428.1	440.2	446.2	451.3	453.1	454.8	453.1
12.5°	398.9	405.8	425.5	445.3	460.8	466.8	466.0	459.1	449.6	447.9	446.2
15°	422.1	430.7	453.1	476.3	488.3	480.6	460.8	453.9	452.2	457.4	455.6
17.5°	441.9	452.2	479.7	503.8	501.2	474.5	468.5	472.0	470.2	471.1	471.1
20°	460.8	475.4	504.6	521.0	498.6	481.4	476.3	472.0	466.8	468.5	466.8
22.5°	484.9	495.2	528.7	529.6	495.2	481.4	470.2	461.7	459.9	460.8	461.7
25°	503.8	520.1	549.3	523.5	495.2	467.7	452.2	450.5	451.3	456.5	454.8
27.5°	529.6	545.9	565.7	520.1	474.5	445.3	439.3	438.4	432.4	434.1	434.1
30°	553.6	573.4	574.3	520.1	448.8	426.4	417.8	402.3	389.4	392.0	391.2
32.5°	586.3	603.5	576.0	499.5	419.5	401.5	378.3	354.2	348.2	351.6	352.5
35°	624.1	637.9	577.7	465.1	390.3	366.2	324.1	310.3	309.5	312.1	314.6
37.5°	674.0	681.7	590.6	425.5	361.9	311.2	278.5	275.1	267.4	262.2	263.1
40°	735.0	725.6	615.5	390.3	328.4	261.3	247.6	238.1	223.5	208.9	211.5
42.5°	802.9	776.3	623.3	361.9	282.8	230.4	217.5	202.9	184.8	169.4	168.5
45°	876.0	833.0	616.4	339.6	237.3	207.2	193.4	176.2	154.7	141.8	141.8
47.5°	962.9	887.2	594.9	321.5	205.5	186.6	169.4	152.2	137.6	125.5	125.5
50°	1058.3	950.0	579.4	289.7	183.1	166.8	149.6	135.8	124.7	115.2	115.2
52.5°	1158.9	1009.3	566.5	243.3	163.3	148.7	136.7	125.5	116.1	104.0	102.3
55°	1261.2	1066.0	572.6	198.6	145.3	135.8	128.1	116.9	113.5	110.9	109.2
57.5°	1367.8	1127.9	587.2	162.5	129.8	129.0	125.5	133.3	141.0	135.8	133.3
60°	1451.2	1176.1	588.9	136.7	120.4	135.8	153.0	155.6	135.0	122.9	122.1
62.5°	1517.3	1221.6	548.5	118.6	122.9	159.9	163.3	137.6	116.9	111.8	111.8
65°	1551.7	1238.0	441.0	108.3	128.1	153.0	147.9	123.8	109.2	108.3	108.3
67.5°	1534.5	1225.1	308.6	97.1	113.5	132.4	132.4	113.5	100.6	104.9	103.2
70°	1452.0	1161.4	203.7	87.7	99.7	119.5	122.9	105.7	93.7	96.3	93.7
72.5°	1280.1	1048.0	134.1	77.4	86.0	105.7	114.3	97.1	86.0	85.1	82.5
73°	1246.5	1005.0	126.4	75.7	83.4	102.3	111.8	95.4	84.2	81.7	80.0
75°	1057.4	838.2	95.4	67.9	73.9	92.0	104.0	89.4	77.4	73.9	72.2
77.5°	770.3	581.1	71.4	57.6	61.9	80.0	92.0	81.7	68.8	64.5	63.6
80°	480.6	316.4	53.3	46.4	49.0	67.1	80.8	73.1	59.3	54.2	53.3
82.5°	188.3	103.2	37.0	34.4	36.1	50.7	67.9	63.6	49.9	45.6	43.0
85°	30.9	35.2	24.1	23.2	23.2	36.1	51.6	49.0	33.5	29.2	25.8
87.5°	8.6	16.3	9.5	8.6	8.6	15.5	28.4	22.4	13.8	11.2	10.3
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)