

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: LUMARK

Report Number: P881886

Luminaire Tested: **NAV-SB1C-730-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-730-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5388 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

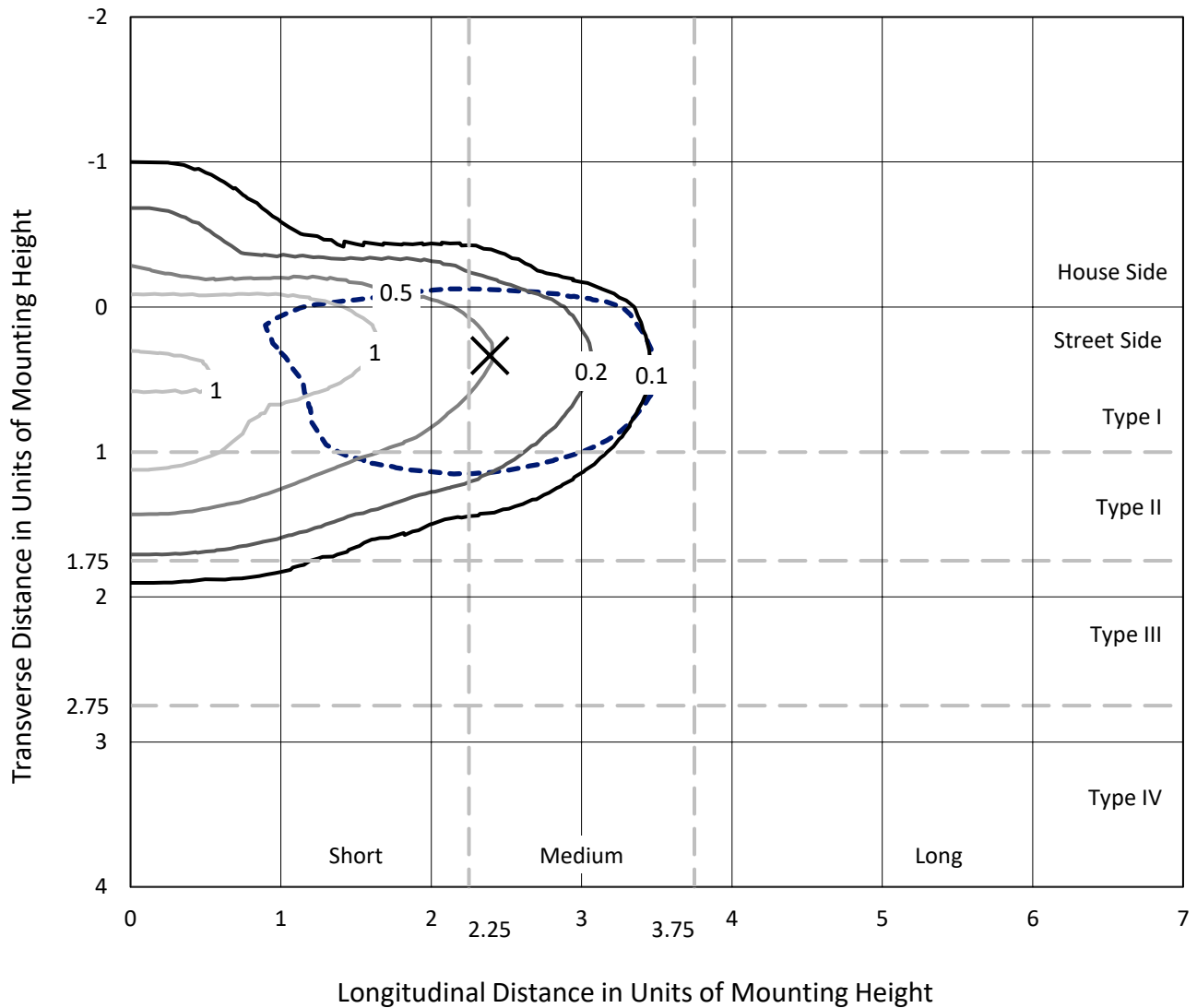
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

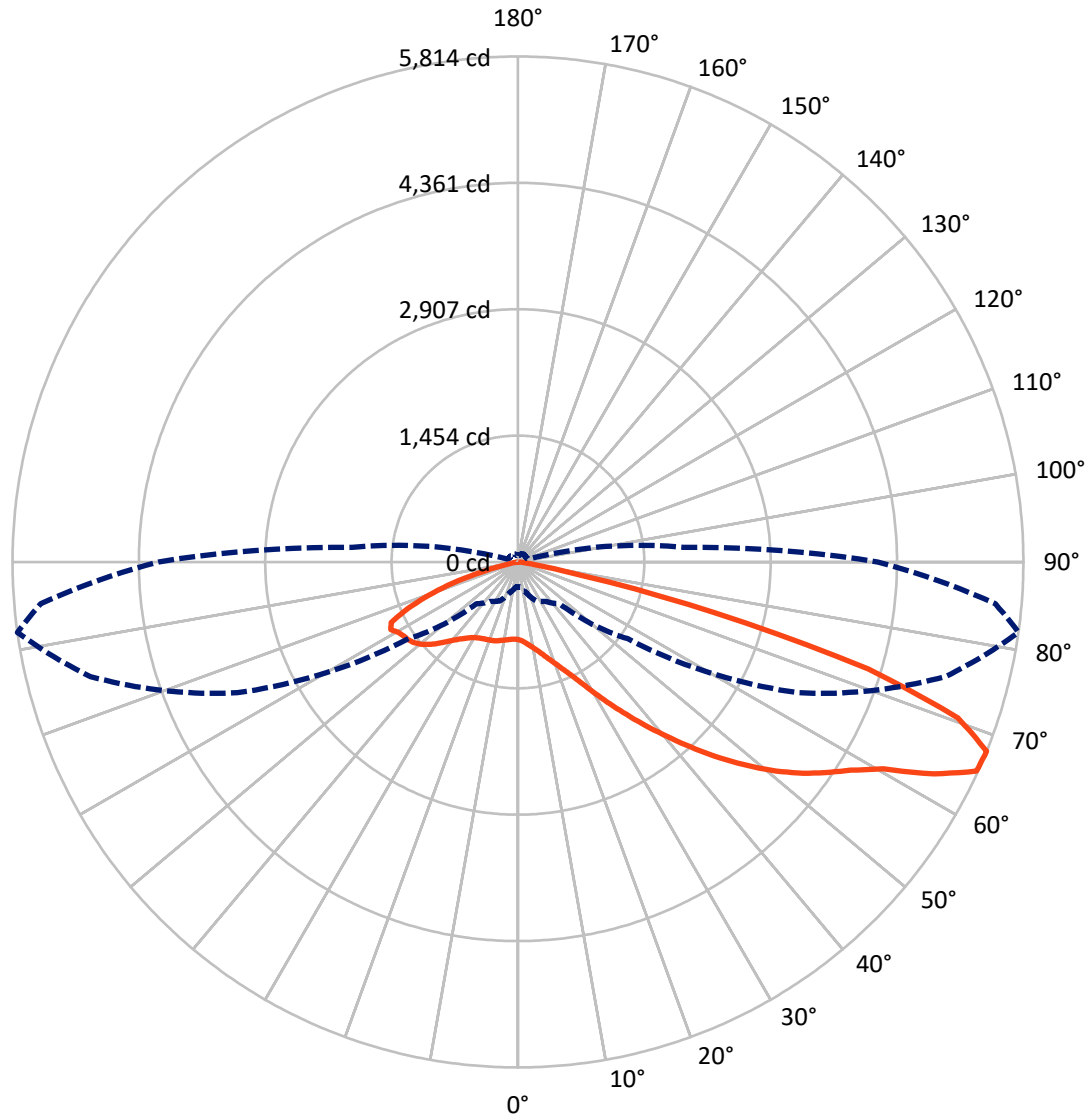
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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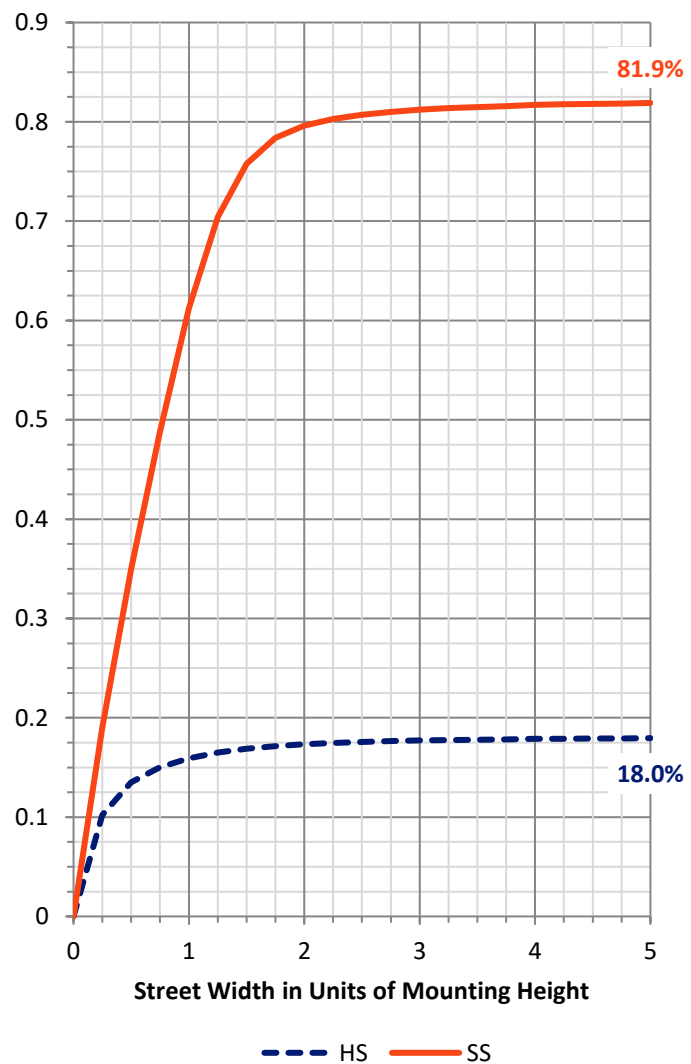
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	976.0	0.0	976.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4412.0	0.0	4412.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	5388.0	0.0	5388.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	1.5
10°-20°	206.7	3.8
20°-30°	331.0	6.1
30°-40°	585.3	10.9
40°-50°	1025.5	19.0
50°-60°	1367.7	25.4
60°-70°	1273.3	23.6
70°-80°	488.7	9.1
80°-90°	30.4	0.6
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°	5388.0	100.0
0°-180°	5388.0	100.0

Coefficient of Utilization



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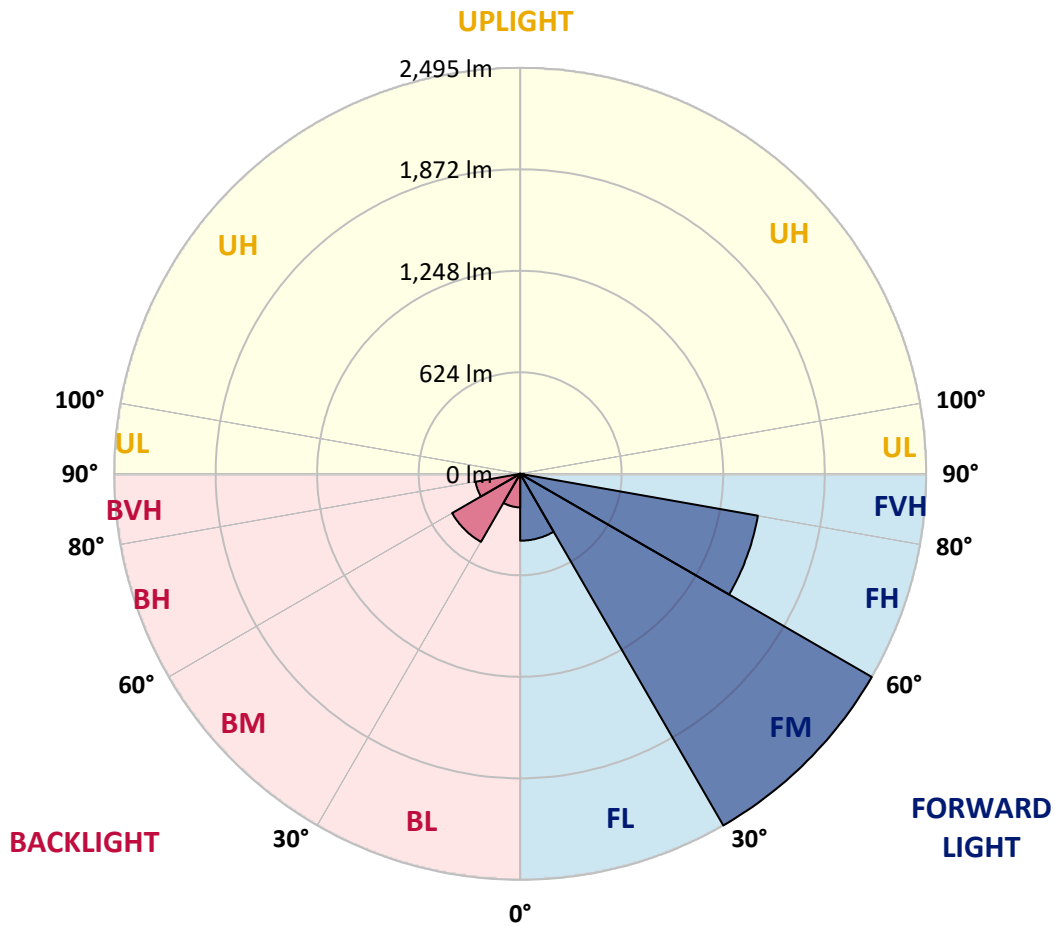
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	411.0	7.6			
FM (30°-60°)	2495.5	46.3			
FH (60°-80°)	1483.4	27.5			G1/1800
FVH (80°-90°)	22.1	0.4			G1/100
BL (0°-30°)	206.1	3.8	B1/500		
BM (30°-60°)	483.0	9.0	B1/1000		
BH (60°-80°)	278.6	5.2	B1/500		G1/500
BVH (80°-90°)	8.3	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	892.6	892.6	892.6	892.6	892.6	892.6	892.6	892.6	892.6	892.6	892.6
2.5°	943.4	948.9	945.8	944.2	941.5	937.6	934.5	924.8	914.7	908.1	905.8
5°	962.4	967.9	967.5	969.0	971.0	972.1	971.4	960.5	946.1	934.9	928.3
7.5°	946.1	952.3	957.4	965.2	978.7	993.1	1000.1	997.7	983.0	967.5	959.3
10°	900.0	906.6	918.6	936.8	965.5	996.6	1022.6	1034.6	1025.3	1008.2	997.0
12.5°	815.4	822.0	845.7	885.2	933.3	987.3	1036.9	1069.1	1071.4	1054.4	1041.2
15°	720.4	727.0	752.2	801.8	875.2	961.7	1044.7	1105.6	1126.1	1111.4	1095.5
17.5°	661.4	667.2	686.2	726.2	802.6	910.5	1042.0	1144.4	1191.3	1179.7	1160.7
20°	643.6	648.6	657.5	685.5	749.1	857.3	1024.1	1180.8	1261.5	1254.9	1233.6
22.5°	662.6	667.2	669.9	682.4	722.3	822.4	1001.6	1218.1	1343.0	1343.8	1317.8
25°	706.4	711.1	708.0	715.7	733.2	811.5	993.1	1261.9	1445.4	1453.9	1424.5
27.5°	778.6	778.9	771.6	771.2	773.9	827.8	1002.0	1308.8	1574.6	1590.5	1554.0
30°	923.3	917.4	889.1	858.5	844.5	876.7	1026.8	1364.3	1727.0	1755.3	1709.6
32.5°	1146.3	1137.8	1085.8	1012.5	938.8	955.5	1071.4	1427.6	1893.1	1944.3	1888.4
35°	1388.4	1386.0	1331.7	1222.7	1093.9	1067.6	1144.0	1510.6	2074.2	2155.7	2089.3
37.5°	1613.4	1612.2	1581.2	1452.8	1296.0	1223.9	1260.4	1619.2	2268.2	2386.1	2307.7
40°	1819.0	1822.5	1791.4	1676.6	1518.7	1424.5	1418.6	1753.4	2483.9	2637.1	2544.0
42.5°	1996.6	2000.5	1969.1	1884.1	1738.7	1646.3	1613.0	1917.9	2694.5	2906.7	2796.5
45°	2117.3	2141.3	2136.7	2068.8	1964.4	1868.6	1846.5	2124.3	2934.6	3192.6	3063.4
47.5°	2151.4	2173.5	2208.4	2217.8	2154.1	2059.9	2086.2	2372.9	3177.5	3478.9	3331.9
50°	2067.2	2087.8	2160.3	2256.9	2301.2	2272.1	2319.4	2639.4	3426.1	3764.4	3595.3
52.5°	1901.2	1922.2	2013.7	2166.5	2346.9	2438.5	2553.3	2902.0	3667.0	4034.8	3844.7
55°	1661.1	1683.2	1800.7	1973.7	2259.6	2507.1	2748.4	3164.3	3887.8	4278.0	4069.7
57.5°	1334.5	1350.7	1472.9	1715.0	2040.1	2438.9	2892.3	3450.6	4095.7	4517.0	4292.7
60°	869.7	884.1	1026.1	1296.0	1676.2	2210.8	2921.1	3769.8	4371.9	4827.7	4593.4
62.5°	578.4	588.1	672.3	870.5	1180.4	1772.8	2753.1	4024.7	4776.9	5368.5	5108.9
65°	396.8	406.5	490.7	628.8	762.7	1172.7	2270.1	3990.9	5143.8	5797.9	5491.0
67.5°	283.2	291.3	362.7	493.0	552.0	681.2	1538.9	3559.6	5091.1	5814.2	5511.6
70°	202.9	207.5	266.5	384.0	438.7	409.3	855.8	2722.4	4457.6	5368.8	5091.9
72.5°	142.0	143.5	185.0	292.5	353.4	298.7	407.3	1815.1	3371.4	4214.0	3947.5
75°	96.2	98.1	124.5	214.5	283.6	228.1	215.7	973.3	1979.2	2332.6	2090.9
77.5°	59.0	59.7	80.3	146.6	212.2	173.8	138.9	412.4	765.8	751.8	640.8
80°	33.4	33.4	51.2	91.2	144.7	112.1	97.4	175.3	242.5	213.0	187.8
82.5°	18.6	19.0	37.2	56.6	95.8	66.3	53.5	81.1	104.7	92.7	80.7
85°	7.8	8.5	22.9	26.8	45.8	33.0	21.7	34.1	38.8	34.5	25.2
87.5°	0.8	1.2	7.0	5.0	5.4	6.6	3.1	6.6	5.4	5.4	3.9
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°	892.6	892.6	892.6	892.6	892.6	892.6	892.6	892.6	892.6	892.6	892.6
2.5°	898.4	892.6	877.9	860.8	838.3	827.4	812.7	802.6	794.1	794.9	787.1
5°	915.9	901.1	868.2	827.1	775.8	739.4	700.6	673.8	652.1	647.4	637.0
7.5°	939.9	916.7	858.9	784.8	698.3	632.7	574.1	536.5	509.7	501.2	492.7
10°	971.0	937.2	846.8	731.6	607.1	523.7	460.9	431.4	413.1	406.9	402.3
12.5°	1007.0	960.9	830.9	666.8	513.2	432.9	393.0	378.2	372.4	370.5	369.3
15°	1052.4	990.4	806.9	590.0	433.7	377.4	360.4	358.4	359.2	358.4	358.1
17.5°	1106.4	1022.6	767.7	510.9	380.2	349.1	342.9	344.5	346.4	346.0	345.3
20°	1165.3	1054.4	717.7	440.7	343.7	329.0	325.5	327.0	328.6	327.8	327.4
22.5°	1232.4	1088.5	662.2	386.0	319.3	310.3	306.5	306.8	306.8	305.3	304.5
25°	1312.7	1126.1	604.0	347.2	300.6	293.7	289.0	287.5	285.1	280.5	279.7
27.5°	1408.5	1166.1	548.1	320.0	285.9	279.3	273.9	270.0	264.2	256.4	255.6
30°	1516.4	1214.6	500.8	303.0	274.3	267.7	261.5	255.6	247.1	237.4	236.6
32.5°	1643.2	1266.6	466.3	291.7	263.8	256.8	249.4	242.5	233.1	223.4	223.8
35°	1794.5	1329.4	446.1	284.0	255.6	246.3	238.2	230.4	223.4	214.9	214.1
37.5°	1958.6	1396.1	439.9	280.1	250.2	235.9	226.5	221.1	220.3	215.3	214.9
40°	2138.2	1475.3	444.6	277.8	244.4	225.8	215.7	214.5	216.5	207.5	207.9
42.5°	2328.3	1569.1	452.3	275.0	236.2	215.7	206.0	206.0	204.4	192.0	192.0
45°	2533.9	1677.4	460.1	268.4	226.5	205.6	198.2	195.5	188.9	176.9	176.5
47.5°	2741.1	1787.5	465.9	256.4	214.9	197.1	190.5	184.3	174.6	163.7	163.3
50°	2937.7	1886.5	459.7	238.6	201.7	188.9	181.9	173.4	162.9	155.6	154.4
52.5°	3113.5	1972.2	433.3	217.6	187.8	180.4	174.2	165.3	156.7	149.0	148.2
55°	3266.3	2041.6	386.8	197.8	175.3	173.0	166.8	155.6	143.9	137.3	136.5
57.5°	3412.9	2094.4	328.6	181.5	164.1	164.9	155.6	145.5	134.6	127.6	126.9
60°	3608.1	2165.0	269.6	166.4	152.1	154.4	144.3	136.9	123.4	114.4	113.3
62.5°	3920.0	2274.8	214.1	147.8	138.1	138.9	134.6	125.7	109.4	98.9	98.1
65°	4167.4	2234.4	168.7	127.6	122.2	123.4	123.4	113.7	96.2	84.2	83.0
67.5°	4139.5	1913.2	134.6	107.8	107.1	107.8	110.6	102.4	85.3	75.6	74.1
70°	3813.3	1521.8	107.8	89.6	93.1	91.2	98.9	93.5	76.8	67.1	65.9
72.5°	3111.5	1096.3	82.2	74.1	71.4	74.5	89.2	84.2	64.0	53.1	52.0
75°	1818.2	585.0	61.3	58.6	51.6	62.1	79.1	71.8	48.9	39.2	38.0
77.5°	592.0	204.0	45.0	43.1	38.4	50.0	67.5	60.5	40.0	31.0	29.9
80°	158.7	61.7	30.6	28.3	24.8	37.2	53.5	48.1	28.7	20.2	19.8
82.5°	63.6	26.0	17.8	15.9	13.6	25.6	42.3	38.8	21.3	12.8	12.8
85°	20.6	8.5	6.6	5.0	6.2	15.9	25.2	26.4	15.1	6.6	5.0
87.5°	2.7	1.2	1.2	1.6	1.2	2.7	7.8	7.4	4.3	0.8	0.0
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)